

(SEQ ID NO: 1):

Figure 1: Human Genomic DNA for estrogen receptor alpha.

CTGTTGCTTCACCTCAGAATCTTGGGAGAAGCAGGCTCAACAATGAGGGAATCATCCATGACACCCACTG
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CTCAGCCTCCAGAGTAGCTGGGACTACAGAAATGTGCCACTACACCTGGCTAATTTTTATATTTTGTAT
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ACTGTTCAATTTCTATTGCTGAGACTTTCCAGAGCATTTTACATTTCTATAAGTGTGTCCAGTGTTCCTG

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CAGTTTTGATTGTTTTTCTTTATGCTATCTATTTCCCTTGATTATTTCTCCCTTCGCTTCTTCTATTGTT
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AGATCCGCCCCCATGACCCAAACACCTCCCACCAGGCCCCACCTCCAACACTGGGGATGACATGTCAACA
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CTGAACTAGCTAAGACTACTGGTCTCATCTGTACATAGGGAAAAATTATAGAAGGAAAACATCAAGAT
TTGGAAAAATCTGTGAGAATTGTTTTGCATTAGTGTGTAGGTGTGTGTTGGGGTGGTGGCTGCAGCTT
GGGGCAGAGGCTCAGGTGTGGCTGTGGAGTGATCAGATAGAGTTTTTGGAGTTCGGCTTTTGGCCCAGG
ACACTTGGTGCCTGCCCCAGAGCTGCAGCCCAGAAGGCCGTTCTCAGAGGTGAAGTCCAGGCAGTGAGG
AGCTGTCTGCCAGTAGGCAGTTGAAGAAAAAAATGAGCTAGAGGAAAAAAACAAAAAACAAATCTCC
TTCTAATGCTGCCAGGCTGCCGGGAGCTGGAAATGAAGCACTGACAGGAGTGGGTATTTTATGGTGAAGG
GAATAATCAACTGGTTTTTTTTTGGTACCCAAGACTTTCCACCTTCACACACACATGAGATGCTTTGAAA
TAAAGATAGTCACTTGACTTAGTAAAGTTTGTGACATAAAAAATATGAGAAATACCAAAGAATACAAAA
GGAAACTTCGTTAATATTATTTCAGACTTAAAAATCCAGATTGTATCAACATTAAGGGGGTTGATGAAAA
CATGGGAGAAAGCCAAGGGACGTGAGATCGGGCTCAATTCCTGACTTGCTGGGGGAAGGTATCAACACAG
AACTTTTTAAGAATTAGAAGGCATTAAAAAGAAATAGAAATCCTGAATCAAATTGAAACAGTAAATAAAA
TAGTCCAAAGATGTGTAAATATATCACTATCACAATAACTATAAATAGGTTAAATTTGCCAGTTGAAAGA
AAGGAATATTAAATGAGATTTTTTAAAAATTTGGATATATGCTTTTTCATGTGAACATACCTAAAGCATATA
CACAAAACCAGAAAAATAAAAGATGGAATATCCACAGAGTGACAAAGGAAAGCTGGTGCATTTGTATTA
GTATCAGATAAAAGCTCACATTTAGATAAAAAACATTATAGTAATAGAGAAAGTCACAAGGTAAAGTTTC
AATTCACCAAGAAATATCCATTCTAAACATGTATACATACCCAATTAAGCTGCCTCAAATATATATGAC
AAAAATTGGGAGAACTATAAAGTCAGATATAAGGATTGAAAAGAAAGAAATGAACTAATTATTTTCAGA
TGATATACACGTTTACATGAAAAAACTCCAAAGAACTTTCAGGCAAATTATTAGAAATTGTAGGAGAGCT
CCGCAAGAGGGCTGGATATAAAATTAATATACAAAAGTCAATGTCAATTTCACTATACCAGAAAAAGACA
ATAACATTAGAAAAATAAATCTAACATAAGATGTAGAAAACTTCTTAGAGGAAAAATTTTCTTGGGAAAT
ATTAAAGAAGATCTAAATAAGTAGAATTACATAATATTCATGCATAAGAAGGCAACATTTTGAAGACGTC
TTGTTATACATAGGCCTAGGAATAATATAGTTTTTAAAGCTATATTATTTTGAAGTGTAGATGAAGAAAAGC
TCTTTTTTCTTGTAGTATTTTAAAGATTTTGAATAAAGTCATATTGCTCTAGGAATATTTTATACCTTCTG
CCAGCAGTGTTTGAGAATGCCTACTTCTTACATTATCACCACCATAAATGTTTAAAACTGATAGCACAC
AGTTTAAAAAATTTGTAATTTCTCAATTAACAGTGACCTTTAAAAATTTATGTTTACTGATCTCTATTATT
TTGTCCTTTGTAAATCTTTTATTAGTTTTTATGTTTACATGTTCCGTTTTTAAAAATAGACTTTTAAAGAGCT
CTTTGTATTAAGAATATTAAGGCTTTGTCCATATAATTAGTATTTTTCAGAATACCCCTTTCTAGGTACAG
TTTTTCAGTTCCAGTGCACAGAATGGAACTTGCTACCTGCTACACCACATTTTCACTAGTATGTGATGT
ATTCATCACAAACAACAGTATTGGCCAACATTTTCCCTCACTGTGAAGTGCACATTTGACATCCTTTAGA
AAAATTACTGACGGTTTTGAGACGATTGTTCTGTGCTTTCTTTCAGTCAGCATAATTTTCCCGAAAGCAG
AGATGACTCTTCCAGACTTGCTACCAATGCTTGAACAACTGTGTAAGCTTAGTCCAAAAAAATATTTG
ATTAATAGATTTTATTTTGGTAGATTCTAAGGTTCCAAGCAGTCAGAGAAATAATCGCAGAGCCTCAAAT
ATCTCCAAATCTGATACCAATCCTTTTGATTGTGAATTATATTCTGTAGCTACCAAAGAAGGTAAGTTT
TTATTTTTTCTACTCTATTAACCTTTCCCTTGGACAACCTGAATATTAAGATGACTATGTAAGGAGGTTATC
AGACCAAGGCCTCACACATCAGGATAAAAGCACATGCCATAGAAAGAACATTTGTGTCTCAAAGGTGAT
ACCAAGACAAGGCTGTGGGATATATATGGGCACAATGGTTGATACCTTCAAAGACTTCATACATGGTGTG
GAGGTTTTTGGAGATTTTAAATTTATAATGACAATCTTTCCAGTTAGGAGAATTTTTGGACTGTAAAGTTA
GCCAAACAACTTTTCAATGATAATAAATGTCTATATCTTACACAGGGGGAATACAGTTTTTGTGTTGTTT
AGTTTTTCTCTGTCTATTTCATATAGGGGCATCATATGTCTTTATCATTAATAAACTGATTTAGATAGGCA
GTTGTAGAGAAATTTAATGTGTGGGAATTTAAAGTTTTTAAAAAGATGTAGCAAAATATAGATACATTTAA
GACCCACTGCACCAATGAAAAAGGGAAATTAATTAAGTACAGCACTTTTATGGGTACTAACCATTAAAA
TTAAATTTTAGTCATTGTAAATTACATTACATTATAATAGTTTTCAATCTATTGTTAAGTTAAATATTT
TGGGTAACAATTGTATTTACAGTTGTTTACACTTTGCATAATTTTCTAAGGAAATGAGTCCCTTAGGG

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AGAAAATTGTTCTTAAATTTTATTGTTGGATAATGTTGCTGTACTAACATGGTTTACTGAAGTGGATCTA
CCATGGGTGTTTAGGTTTTTGTTCCTTTACAAAATGTATTGGGTGAAATTTTCCATATCACTGGTGAACCT
TTCATGCTAATTTTCCAGTCCCTTAGTTTAAATATTATGCATTTTTTCCTGCAAATCTATCTTGAATCTG
AAAAGGCCCCAGAAGGAATTAGCGTGAGTCCAGAGTAGATGGACTGCAAATGTTACACATATTTCAATAT
GTATCCAGCTTTTCAAAAATAGCTTATTGAAATCAAGGTTGAACCACATGAAATTTTGGGTTTTTTTGGAT
GTAAAAAATGGTTATATATTGGCATTTCATATCATCCAATCTAATATCTTCCCTCTAGTGAGGTTCTGGC
AAAAAAAAGTATGATGACCAGAGTTGTTCACTCTTTTAAGCTTTATGTTTCAAAATATTTTTTAAATTT
AAAACCATCTAAGTGCATCCCAAAAAACATTGGAAAATTTTGTAGGCTAGTTTTGTTTAATGATTTTTCT
TCTATAGATTTATTTTTATGCTATGCCTTACTCTCCAATTAGATTTTAGCCATCCAAGAAAGGTACCTTG
TACTTCTAAGCGATTCTCCCATCACCTGGACGTTAACTGCAGCCCACACTGCAGTGTCTTGAAGTGCAGTA
GGCACTCAGTAAATATTTATTGATGGTCCTGATTATGGGATGATGAAATATGCTAAAGGTAACCTAAACT
TTTGTCAATAAAACCGAGTTTCAGGTTAGTTTGACCTTTTCCGTATCTCTAAATATTTTCTTTCATGTCA
TTTTTGTGAAATAGCTCACGAAAGTACTTATTGATTCTGAAATCCTTTTCCCCTCTGGTATTCTCTGAGCT
ATCCTCACTCACACACAGCACACCAGTGCTATTGTTGCTGTTTTGTTAAATCATTTCTCATTAATATTC
CTCATTCAATAAAAAATAGTTGATTCCCACTTATGCACCAAACTCTATTCTAAAGACTGCTGTTTATTTTA
TGGAGTCAATATCATCATTTTTGTTTTCCATTCCACATAATAGTTGGATGCCAATATGAAGTGTATATTTA
TAAATAATATGTGCTTTTTTTATTTGTTTATTTTTATTTTACTTTAAGTTCTGGGATTAATATGTGCTTT
TAACATTATTGTTTAAAAATAACAGGAGATATCATATCTTAAGCACCTTCTATATTCTGGGCACTGTTCT
AAATGTATCAAAGTTATCATCTCATTTAATCCCTCCACACACCTGAGGGAAGAGAGTATTATTCCTTATT
TACAGATAAGGAAGCTGAGGCTTGAAGATTATATATCTAAGATCACAAAGCTAGTAAAGCAGCCAAGT
TTGAGTCTAAATCCAGGTTTTTAAATATCATATTGCATGTGGGCATAGATGAGCAAGAACAGGTTTTCTCTG
AAGATGGCCAGTCTAAGGCTTAGAAGAAGGAAGCTCGGGGAGCCTAAACCAAGATATGCTAAGGCAAGTT
TTTTTGCTCGTTTGTGTTTGGAGATGGAGTTTCGATCTTGTGCCCAGGCTGGAGTGCAGTAGTGTGATCT
CGGCTCACCGCAACCTCCGCCTCTGGGTTCAAGTGATTCTCTGCTCAGCCTCCTGAGTAGCTGGGAT
TACAGTCATGTGCCACCATGCCCAGCTAATTTTGTATTTTTTAGTAGAGATGGTGTTCCTATGTTAGCC
AGGCTGGTGTCAAACCTCCTGACCTCAGGTGATCCGCCCACCTCAGCCTCCCAGAGTGCTGGGATTACAGG
CGTGAGCCACTGTGCCCCGCCCTGCTAAGGCAAGTATTGACCATTAGAGGAGATGACTAGTCCCAGTGGCA
GGCCTTTCTACTGGGAGTCAGCCAAGAGCTCCCCACTCTTCTGGTTCATTGTTCCCTCCTGCAAAGTTC
CATTCATAAAGTGGTTTCCCATTGATTGTCCAATGATGCAAATCTCCAGTCCCTTTTAGCACTGAGTTT
CTCATAGCCTTTTACCATTGAGTTTCTCATGGCTAATGAATGCTAATGAATTGGCATTCCGATTTATCTA
TAGGATTCCATGAGTCAGCCTCATGAAAGAAGGTTCCACTCCCTCACTGTGGGTACCGTCTGGGAATTAG
ACCCTTAATAGGAGTAATTCAGCAGGCAATGTCTTCTCTAATAACACTCCAGTCTCACTGAGAGCTTCTA
TTCAAAACAACAATCTAAAGGTCTACAGTGTGACTTTCAACTAACTGAAAAAAGAATAGAAAATGAATG
TATGTGATGTACACATTCAATCAAATGTTTATCCCTAAAAATCATAGCAGATTATGACTGATCATTAAG
CCAAATTAAGGGGGCAAAATGTATAAAAACAAAGGAACCTCTAGGCATAATAGTCTTTAAAGTAAAACA
TTACTACTGACAGTTGCTTGTGTGAAAGATATCTTTATTTAATATGGTAAAAAGAACACAGGAATTGCTA
GCACCTACCGTATGTCCATTTTATGTCCACCTTAAATAGATATGTCTGTATAGTCATCAGATTAGCACT
TTAGAATTCAATAATTTCAAAGAAATCAGAATGGACATTACATGTGCTTATCTGGCAGGAGAATTG
AACAAATCCTTTCTATAGGAAAAATGTAAATTCCTAATAACTCCACAGGATTGTAAGACTTGGGCTGGTA
ACTTCAGTGAATACAGCAGAGTTTGGGCGATGGGAAAAGGTACAGTTGTGTTTCTAACTCTTAACTTTG
TGAGGCAGTGACTTTATTTCTTCTCATGATTTTGCAGTAAGTTCAGTACAGTGGTATGTTTCACTATAG
TTCAGTGGCTAAGCTTTTGGAGGGACAGTTCTATGTTCTAACTCAACTCTGCCACTTGTAGAAAGTG
ACTCTTGTCAAACCTATTGGCCCTTTCAAACCTCAGTTTCTTCTCATCTGCAAACCTTTATTCATGGGGTGT
TGTGAGGGTTAAATGAAAAATATGTAAACTCATCAAATTTTAAAGCACAAAATACCAAGTCTCAGCAGA
ACACATACAGTAGGAGTCCAGCCATTAAATTTGAAACAGGCAGAGGCAAAATATTTTGTGTTAGAAAGTA
CTTGCATTTTCTAGCTCTTTGGCTGAGTGGACAACATTTTGGTGTCTTTTTCTTATTGTTATTTTTTAA
AGCATACGTATATGTTATGTAGACTCTTTTGTATGTATATTTAACTCACAATAAATATTTATAAATAGAA
AGAAAGATATCACATATATGTGCACATACACTGGTAAGCCCCAATACACTGCCTCATTTCTAAATGACTC
TAGCATTTGTAGGACAGTGCTTTTAAACCTTTGCACTCACGAGATACTCTGGGGAGCTTTAAATATAT
GCTGATGCTTGGGCTCCACTTCCACATATTCTGATTTAATTGATTAGGGGTTTCGGCTCAGGCATCAGTAT
TTGTAAATAAAAGCTTCCCAGCTGATTCTAATGTGAAGTTAAATTTGACGGATACTGATACCGATAAAAG
AGTGAGTGCAATAGACACAAAACAAAATAGGAGATGTGTCTCAACAATGGTAAGATTGTTTTAAAAATTA
TAGTACAATTAAAAAATAATGTAATGCAATTATTTAGAAAATCTTACAATTTTGTATTTTGAAAGCAC
CATGTGGATATCATGGGGAAAACCAAGCTTTGTTGGATTTTCTTAAACAAAGATTTTGCAGCTTGGTATC
ATTTCCATTTTGTAGTATTTTGTATCCAGGAGATGAAAGTGGGAAGTGGACAATTGCCTATAAGGCCAT
GCTTTGCACCAGGGTGTCCAGATGAGAGGCAAGTGGAGGGTAAAGTTTAGCCTGCATTCTGTTCCCTAAG
GTACATCTCTGGTGAGGGGTGGCTTCTAATCAGGGGAAGAAGTCTATGTCTTGTTCCTAATGCACGC
ACAGGTTCCACAAGCCCTCACTTTGTTCTCAAGAGCATAGCATTTATTTTGGTGCTTAAAGACTGCTGAAT
GTCACAAAATAATTTTCCCAGCACAAACAAATATTCAAATAGTTATGTGCACAGCCTGTTTGGACACC
AATAAGTTTGGCTCTGTGGCCTGTTTGGGCACTGACATGGTTTGGCTCTGTGTCCCTACCCAAATCTTA
TCTTGAATTGTGATCCCCACATGTCCAGGGAGCGACCTGATGGGAAGTGATTGGATCATGGGTGCAGTTT
CTCCCATGCTGTTCTCATGACAGAGAGTAAGTTCTCAGGAGAGCTGATGGTTTAAAGTCTTTGGCAGTT
TCCCTTTCTCTCCCTCTCTCTCTCTGCTATGTAAGACGTGCCTTGTTCCTCTTTGCCTTCCGCCATG
ATTGTTTTAAGTTTTCCTGAGGCCTTCCCAGCCATGTGGAATATGAGTCAATTAAACCTCTTTTCTTTAT
AAATTACCAAGTCTCAGGCACCTAAACCAATTAGAAGGTGTGCCATTGGCACACAGCAGGGTCTGTTGT
CTCCCCACCATCCAGCCACCACTCTGCCAGGTGTGAATGTATTAATATGCTGGAGTGGGTGAAAGG
AGGCAGTCTGCAGAAAGGGCACTGCCACTGGGATGGCACAGGAGGGCGCTCGAGAGACTCACCTTAGTG
ACTCTATCAACTGGTGAAAATATTTAGATATTTTCACAATCAATATGGCCTTGCTTGTATATACAGGGTG
ATTATAAATCTCTTGCCACTTATCACAGAAGTCGAAGTTTCATCATTTCTTTTCTGTATTTGGTTTAT
GTGCAACAATATAGGTTTATTTTCCAGTTCTGGAAAATAATCATGGTTAATACTGACTGAGAAGTATCA
TTTCTTTCTCTTTTATACCAACCAATGGGGCAGGTACCATTATTAAAGGGGGAGGAAATAGAGGTTAAA

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TAACATGCCCCCAATCAGTAGTGGGGAAATGAAAGAATCAGGATTCAAAGCCAGGTTTGTCTGGGTCTTG
GGACCAGCTCAGCGTCTGTGCTGTACTGCCCGGGACTCCTGCTGCCAATTCCTTTCTACCTCATTATCCCT
CAACCCTGCACCAGCAAATCCACAGGGCGTGAGATGAAGAGAAGAGAGGACCACAGGCGAGAAAGTGGCA
GCAGCAAGAGAAGATGTACCATGAGGAAGTTCTGGGAGGTTCTGCCCGTCTTTCTGAGAACAGGGGAGAG
ACAGAGCTGAGTTACAACCTGCACTGCTTCTTAGCTTCTTAGTTTCTCTTCAGAATTAGTGGCAAAGAAGA
GTTTTTCGAAGTCTTTAGCATGTATTAAACGAAGAATTTTGTTTATAAGAAAAAATTGTGGATCGTTCCCA
TGTTTTGTCTGGAAAACCTCTTGTAAACTTTTGTGCAGCTAGTAAATTAAGTCACTGTTTATTCTGTGTAG
TGGAAAGCATGCTTAAACTCTAACTCAGGAGACCTGATTCCAGGAATAGTTAAGCCTGAGTTCATTATAA
ACCACTTAAGTTATCTGTGTCATTATTCTAGTCTGTAAATGGAGGGCTTGAGCTGGTTTCTTGTAAGGT
GGGATTTGGCTAAGTGTCTTGGATACAGTTGCTCACCTCTTTGAGCCTCAGCTTTCTTTTGGTGATTA
TTTAATCGCATGTGATAACAAATACAGGGTGTCTTGTGAATGCCTGGAATGGCACTGAGATTGTCTCCA
CTACAGTAAGGAGGTGGTTTAGAAATTAGCTAATTTATTAATTAATGGCCTATAGAGCTTCATGTAGGTT
GGTACTTCAAAGTCCCATTTCATATGGATCATGTTTCATATTTATATATTCATCACTTTTATTTCAAATCT
CTTTTTCTGCTGAGATCAACTGAGATTTCTAGAAAGCAGTCTTATTGTGAGCACTTTGCCAGTACATTT
AGTAAGAAGTGTACTAGCATTGACTCAAACAGTTCTCTTAGAAGGGCTGGCACCTTTTGTTCATTTTTT
TTAAACATTAACTGCCATAATAATTGAAGCATGAATGCACTTTCTTTGGATTATGAAACAAATCAATCA
CAGACATGGGAATTAGGTGTGTTCTCTTGTCTTGTTCATATCATGCATTTTTTTTGTCTGAGCTTTCAC
TGTGTCCCCAGAACTGTGCTTGGTGTAAACAGTGGCCCCACAGAGTACGGCTTTATATTCAAGGAGATGA
CAATCTTGTGGAGGAAAAACCTTATACATAGAACAATTAAGGAACAATGCAAGGGAAACACACATTGCA
AGTTTTGATTGTACCTATTTTATGGCTATGGTATAAAACAAAGCACCTGTTGTTTCTGAGAGTGAAGGGA
TAAGACAATAACTACAAAAAGGTGAAATGAGTTAATTCAAAAGGGAACATTGAGCATGTCATTTTCTAT
TGAAGTGCTATTATTTGGTATCGGCTTCCTTTGGTGGTGTGGTTTTTATTCCCTCTGCCCCGGACTCT
GTTGTTTTAAAGATGTTCTTTCTATGAGGGATCTTGGATGCATTTTAGCAGTGTTCCTGCCCCGACTCT
TTATATTCTTTGATGCCATCCCAGGTACATCACATTCTTGCTAGATGAGTAAAGGTAAGCATACTTAGAA
GTCAAAAAGAAAAGGCTGAAGTGGTGAAGTGTAGCTTGAAGAAATTATAGATTCCATGGAGAAAAGTGTGT
TAAATCACAGGACAGGCTGAAAACCTCACATTACCACCTGATGGAAGTGAAGTCTACTTTTATAGGTTACT
AGGAGAAGGTGAGCTTCTGTAAAAGCAGATAAAACAAGGATACCATTACCAGAGTTTCAAGTAATTTAAA
TTAAGAAGTGAACATTGATACTGATATGATTTCTAGTTTATTATCTGTGACAGAACCCAGTAGCTTATTG
AAAACTATCATGGAAGAAATAACTAAGAAATAACCATTTAAAATATATCAGGATATAATGAGGATGAAG
CTTTAGATAACACAAAAAGGCAATTTCTCTTTAGGCTGAAAAATACCAGACACAGATATATCGACAGAGT
GACCTGCCAGAATCCCTACTTTCCAGCCCATCTGATAAAGGTCAACGATTGAACACCCAAACACGTTGAT
ACACACAGCACCTGCCTGATGAAAACCGTTAACAGTGTCTTCTCAGCCAGAGTGCCTGTTTTCTTAA
AGTTTTGAAAACAGTAATCTAAATTTCCCTATTCCATGAGTAAAGTTCTACTTTTTTCTTTTTCACACTA
AACAGCATTCGATGTTTTAGCTGAAAGTCAATTAAGAAAAATGTATTGTGTCTGTGTTTTCTTGCTTTC
TTTTAAGCACCTCTAAAAGAACTTGTCTTCTTCTTGAATTGAGAACGAGGTAGGAATGAAAGACTGAAA
CGGTAAGTCTCATATAATTTTATTATGACAAGTTGGGTTTATGAAGTATTTTTCCAATTACTGCCT
CCAATTGTTAAATAGGTAGATAACATGCCAGCTTTAACTGCCAAAACTTGTAGTCTTAAAAATATTTTT
TGTAGTATTACTATTAGTATCATGAACAGAAATAGCAGTGATAAAATCAAATCAAGTTTTGTGAACACC
AAAAATCCATTTGCCTGTGTGTGGAGGGTGGTTTAGGATTGGTGAATTAATATTCTTTGCAAACGGCTG
CACCTAGCATGGTGCCTTGAAGCCCTGGGAGTTCTCTAATTTCTGCTCGAGAGACTTCCATTAAAC
AAGAAAATGAGGTGGGAAAGGTGAGAGGATTACAGGGTAACAGGAACTGGACCTGAACCTGAGCTTCAT
GCAGTCCGCAGATTTTTTAAAGTGGTTTGTGTTTTTAGAAGTGTGTCACGACCTCTAAATCATTGTTAAT
TTCATCGTTAAACTGGCCTCAGAGAGATTTGTTTTAAAGAGACAATGCAGTTAGAGGATCGTGATCTCT
GAACTCAGAAGCCAGAACTCCAAAGCTGGAAGCCACCAGATCCTAGCAAGTGAAGCTCTGTCAATCTGG
AGCCGCAGATTTTGACCACGTGTGCACAGCCTCCCATCTGGGCAAGCCCTTTTCTCTCCACCCTCCACT
CCACAGCTTCTGTTTCTTTTCTTTTCTTTTCTTTTCTGCTGAATTCATCATCCCTCCCTTTCCCATGCCGA
GACTTAAAAGGTTTCAAATACTTCAAAAATCAATGATTTCTAAATCACCTCAGATGACTTACATACAATG
TTTTATTACATTTTCCAGAGCAGAATGGCATATTAAGAAATGGTTTTATTTTCAACTATATTTTCTCTT
AGGAATATAGAGACATTATCTCAAATTATTACCTCGAAGAGACAGAGACAAGAATTTTGCACCATTCTAG
TTCTCAAATCATTTTAGGTATTTTATTTTCTTTTGCCTAAATCTCTTAGACGGTTATTTCTCTGATCAC
TTAAAAATTACATTTTACTTGGGCAGGGCCTAAAGAATTACATTGAAAACTAAGAAATTATTGGGAAAA
AATTCCATTAGCACAACTATCATGATCAGAAGAAATTGGCTAATTTCAAGTGTCTTTTCTTTGGGCTCTTC
ATAGAAAAATTGTTGAAATGTGTCTTTCATAAGTAACTGGCATTCTGAAATTGATTTAAAGCTGTAGAGGG
GAAGAAAAGCTACATTGGAAAAATTAATCTTAGGTTTGGAGATATTTTAAAAAAGTCAACAAGTTCCAT
GCCAGAGGAGTGCAGACACTGACCTCTTTTTCAGCTATTAGAGGTGAGGAAAAAAGTTGTGTGGTTG
GTGTGGAGAGAGAGAGACACAGCACTTCTTTAGCCATCATCTACTAACACCTTCACAGTACATTTTC
TTGCTAATAATCCCAACCATTTCTACAGGGAAAAAGTGCATGTTTCTGTTCTCTGGTAGAAGGGCCACCCA
AGGAATTACAGTTTCTGGTGAAGTAAAGTACAGAAAGTACCCACAGCTCCTGGGCCATTGGTCTCCTCTA
TCCAGCCTCCACTGACCTTGTGGGTCCACTGCAGTTTTCTTCTTGAATTAAGTCTATGAGCTCTCTGTT
CCTTCAAAGTACTGGAGCTTCTGGCCTTAGCACATCTGTTTCTGAGCCAGAGCACCTTCACTGAGAAGC
AGACCTCTACTTGGCTGGGTCTTACTCACCTTATTGGTGCCTCTTCCCCATCCCCCTCCTCCTCCTCCT
CCT
GAATGAAGGCATGCATGAATGCACATGTTGGAGGACGAAGGTTCTGTTTTTACTCTCAGTGCACCAAAC
CCAGCAGAGTTAAATAGTGAAGGTTCTTAAAGTGTCAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT
GTGGGAAGGGCTAGAAGGAGAAGAAAGGAGAAAGGGAAGGCAGGAGAGGAGAGAGGTGGGGAAATGGAA
GGGTAGTTGAATGTCATAGCAAATTAGAGTTAGAAGAGGAGAATTAGTAGAAAACAGAGCTAGAGTCAAA
AACAGAGTGAGACAGACAGAAATTCATAGATTTGCTGTCTGGCCAGATCTCATTGGATAACTAGAGCCT
CCCTTCTTCTTTGGGTTGAATGGTCTTTACTCATTCTTTATGTAGACCATCCTTACTTCCACATGGAG
TTTGTATGTTCCCATAGACACCAATACTTTACATATCAGAACACTTGTCAATTTTATTAATAATTGTTTTT
TATTAGTTTCTTTTCCCACTAGACAGTCAATGTGATGAGGACTATAGGGTCTATCTTTTTCATC
ACAGTAGCCCTCGAACCTAGCACAGTGAAGTTGCCATAATACATTACTAAATATTGTTGAAAGCCTA

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AAGCACTGGGCAAATCATTTTGACTTTCCAGACTTCAGGATCCCCATTTGTGAGGGAGCTGGTCTATTTG
ATACCTAAGACTCCCCCTCCAGCACAGGTCTTCTATAATTTTGTATCTACATGGCTTCCTGCCTGATGCCA
GGAACCTAAGATTTAACTCAAGAAGACAGGGATGTTGCTTGCAAAGACCCTGAAGATCTTGTCATCCAAA
CTGTGACTGCCTGGAGACTGTTTATACAGGATCTTGAAGTGGGCTAGGAGAGTGCAATGGATGGTAGTCC
CAGTCCTTGTTTGCAGGGAGAGGAAGACAGCGACAAAGCATTTCTATGGAAAGAAGGAGTTGCTCATAAG
TCTACTATGGACATCAAAAATATGCTGATGAGCCACAGCAAGTTCATTACAAAGGGATTTTCAAGATAGAAGC
CTCCTCCTTCAGAGTGAGGAGGAAGAATCATCCAGGAAAGAGAGAAATTATGTGTATTTTATATATTGCT
GTATGTACATATTAATCAGCCAGCAAATATTAAGTGCATTCATGGGCAAATGCCAAAGAGATGAAGAGA
AAAATCAGACTCCAAGGATCATATAATCTGATTGTGGAAGAAAGGCATATTCATCATGAAAATGTAGCAA
AGATGTTAAGTGAGTGCTTAGTCTATTCTGTGCTGCTATAAAAAATACCTGAGACTGGGTAATTTACAA
AACAATTTATTTCTCGTGGTCTGGTACTAGGAAGTCCAAGATCAAGGCACCAGCAGATTGGTTGTGCG
ATGAAAGTTCAGTTTCTGCTTCATGCATGGTGCCTCCAGAGGACAGGAACACTGTGTCTCATATGGCAG
AAGGTAGAAGGGCAAAGAGGAAAAACCTTTTTTTTTTCTTTTTTTTGTAGATAGAGTCTCGCTCTGTCA
CCCAGGCTGGAGTGCACTGGCTCGATCTTGGCTCACTGCAAGCTCCGCTCCTGGGTTTCATGCCATTCTC
CTGCCTCAGCCTCCTGAGTAGCTGGGACTACAGGTGCCCCGCCACCATGCCTGGCTAATTTTTTTGTA
TTTTTTAGTAGAGACGGGGTTTTACCGTGTAGCCAGGATGGTCTTGATCTCCTGACCTCGTGATCTGCC
TGCCTTGGCCTCCTAAAGTGTGGGATTACAGGCGTGAGCCACTGCACCCGCCAGAAAACTCTATCAG
TTCCCTTTTATAAGGGCACCTAATTTTCAATTCATGAGGGAAGGGCCCTCATGCCTAATCACCTCTTAAAGCC
CTGCCTGTTAATACTATCGCACTGGCAACTCCTGAGTTTGGAGGGTGACATTCAAACCATAGAAGTGG
GATAAGCCAGACACTTGGGTTTCTATGGGTCTCTCCATTTGGTTCCTGTTAAAGATTTAAAAGAGC
AGAAACACTACTTTATTAGAGAAAGGGCATTGAACTTGGCCTTTGAACATGGCAGGATTGGCCACTTA
GAGATTGGGGGTGCCATTCCAGGTAGAGAGAAGAGCAAGGAGAATGGAGAGCACTTGGCATTATGAGAA
TAGTGAGGGTTCATGTCAGGTTACATGAAGCTGACTCATGACAAATTAATTTGGAAAGGCAGGTTGTGAC
CAGGCTAAAGGCATCTGACTTTGCTCTAGAGGAAATGTGAAACCATGTCAGATTTCTGAGCAAGCTGTT
GGCCAGAGCCGTGCTTCGGGGCGACTCACAACAGTGGTAGGAAGCTCTTGGGAGCTGGGAGAGAGAGAG
AGAGAGAGAGAGAGAGAGAGAGAGAGATGGGAATCCAGGGGAGAACAGAACAGTGAGAAAGCAGC
TGCATTGCGGCCAGGCTGGGGTGTCTGGTTTCTGGAAGGGGGTAGTGTGGGGGAGTGGGGAGAGGGG
TTAAATGTGAGCTTCTGAGGAAGTACAGGAGGGGTGAATTCACCATGGAGAAAGTATTCAATAACAAGC
CTACAGAGAAGTTGAGGAAGTGGAGGAGTAAGGACAATGATGTCTCGAGAAACCTGCTCATGAAACC
TGCTCAAGTAAACCTGAGGAGGCCAAAAGCCTGATTCTAAAGTGTGAGAGAGCAACAGCACAACTGGGGA
GGTGGGGTATCAAGTCCGAACCAAGGGTGAAGGGCAGGGACTCAGGTGCTGGAGTGTTCATGTGGATC
TTGGGGTTGGCACTTGCTTGCTGAGTTACCTTGGGCAAGTTACTATGTGGTCTTAGTTTCTGTAAAATGG
AGATCATGATGTAACCACTGGTAGGGCTGTTGGAAGGATGGAAGGAGTTCAGAAACAGAAAGCTCCCAG
CACAGAACCTGGCCCGTAATAAACAGTCTATGTGTTTGCTATCACGAGGGTACTTTTAAAGAAATTTAGT
GCAGATGAGTATAAATGAGACGTGGAGTGAGTAGCAGAATCAACACAAGGTTTTTCTTATAATGGATGAG
AGATTGTAAACACATTTGCATTGGGGAGAAGGACACATGGGAGAGGGAAGAAATGGAAGACACGGAAGA
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AGGGAGGAAAAATGGCCTCACTTTGCACCTCGAATAACATCTACTTTCTTTACCTGGTCTCCTCAAAGGCC
ACCAGGGCCAGCCTCTGGCCTGTTTCTTTAGCCGTAACCTCCTCATTCTCCCCGCTGCCATTTGCACAT
CTTGCATTTTCTCAGAGCTGCCAAGATGGTCTGTCGGCCGGGCTTCTCTAGCTAGCCTATCTTCTGCAG
AGCCCTTCCCTCAGCTTCTTACTTGGCTGAATCTGTTGTCTTACCCAGCTCTCACTTTAAATTCCGAAGT
CCTTCCCTGACCGTCAGGTCCAAAGTAGCCATTCAACATTCTTACATTACCCGTTTTTCCATCTTTACA
TGGCATTGATCTTCACTTGGTGATTCTTGTGTTATTTATTTATTGGTGACTGCCTGCCTCTCTTACCA
ACGTATAAGCTTCATTACAGCAGAGACCTCTTGCTGGTGCATCACAGTATCCTTGGCTCCTGGCACATGG
TAGGAGCCCAGTTAAACGTTTGTGAATAAATAAATGAATACATCCTTCTGTAATATGTGAGAAAAGTGG
GAGGCAAGTCTAGGTGAAGAAGGCACTTAAAAAAAATTTTTTTTGTAGACAGTCTTGCTCTGTCAACCA
GACTGGAGTGCACTGGCACGATCTTGGCTCACTGCAGCCTCCACCTCCCGGAATCAAGTGATTCTCATGG
CTCAGTCTCCTGAGTAACCTGGGATTACAGGCTTGGCGCGTTACACCCAGCTAATTTTTGTGTTTCGTTTTT
TTTTTTTTTTTTTTTTTGTAGACGGAGTTTCACTCTTGTGCGCCAGGCTGGAGTGCACTGGCGCAATCTC
GGCTCACTCCAATATCCGCTCCCGGGTTCAAGCAATTCTCCTGCCTCAGCTTCCCGAGTAGCTGGGATT
ACAGGCCTGCAACACCATACTGGATAATTTTGTATTCTTAGTAGAGATGGGGTTTACCCTGTTGACCA
GGCTGGTCTCGAACTCCTGGCCCCAAGTGATCTGCCTGCCTCGGCTCCAAAAGTGCTGTGATTATAGGC
ATGAGCCACTGCACCTGGCCGGAAGACAGATTTTGAAGTGGAGAGGAGTTAGAGGAAATTGAGTCATACT
TAATTTTATCTGAAAATCATGAAGTAAAATAATACATAGAAAGTGAAGGGTGAACCTCTGGGTGTATAT
ATTCATGGAATAAAATCAGTGTCAAAGGTTTCTCTGCACCCCCATGTTCACTGTAGCATTATGCACAA
TAGTCAAGATATGGAATCGACCTGAGTGTCCATCAACAGATGAATGGATAAAGCAAATGTGGTATGTATA
CACTGTGGAATACTATTACGCCTTAAACAAGAAGAAAATTCTATCACTTGTGACAACGTAGATGAACCTG
GAGGACATCGTGCTAAGTGAAAGGAGCCAGGCACAGAAAGACAAATGTGCATGATCTCACTTACATGTG
GAATCCAAAAAAGTTGAACTCGTAGACACAGAGAGGAGAATGGTGGGTGCTGGGGAGGAAATGGAATGC
GGCAGAAAGGGGAGATATTGGTCAAAGGGCACAAAGTTTGTAGTAGATAGGAGGAGTAAGTTCTGGAGAC
CTATTGTGCAGCATGGTGAAGTGTAGTTAATAATGATGCACTGTATACCTAAAAATTGCTGAGCACAGTAG
AACTTAAAGTTCTTTTAAAATTTTATTTTAGGCCAGGTGTGGTGGCTTATGCCTGTAATCCCAGCAC
TTTGGGAGGCCGAGATGGGCAGATCACCTGAGGTGAGGAGTTCAAGATCAGCCTGGCCAAACATAGTGAAA
CCTCGTCTCTACTAAAAATACAAAAATTGGCCAGGCATGGTGGTGGGTGCCTGTAATCCCAGCTACATGG
GAGGCTGAGACAGGGGAATTGCTCGAACCCAGGAGATGGAGGTGTCAGTGAGCCTAGATCATGGCACTGC
ACTCCAGCCTGGGTGACAGAGTGAGACTCTCAAAAAATATTATTTTAAATTTTATAAATAAAGACAGGTT
CTCCCTATGTTGCCAGGCTGGTCTCAGACTCCTGGGCTCAAGCGGTCTCCACCTCGGCCTCCCAAAG
CGCTGGGATTGCAGGCGTGAGCCACTGCACCTGGACAACCTCGAAGTTCTTACCACAAAAAATGATAAG
TATGTGAGGTGGTAGATATGTTAATTAGCTTGATTAAATCATTTTACATTGTATGTGTGTATCAAAATGC
CACATTGTACCCAAAAATATATGCGGTTTTTATTTGTCAATTAAAAAAAGAGAGGGGACTATAGGCACA
CACCACCATGCCAGGCTAATTTTTTTGTATTTGTATTTTTTTTTTTTGTAGACGGAGTCTTGCTCTGTTG

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GGAATTAATGTGCTTGATGACAATATCTCCAAATGATTTTTTAAGGCAAGAAGAGAGAATGTTACTGACAG
GCCCATGGTTCCTCTGGGTGAGAGGGTCACTGTGAATGAATGTACACACAGAGCCTTTTATTAGTGAGGCT
TAGGGTGTCCGGTTTTTCTTGGCGGAGTAAACATCCACCCAGTAGTATTCACTCAGTTTGCATTGTTCTG
TCGCATTGTTTGTAAATCTTTTGAGTGATTACGCAGCATTTCCTTATTGTTTCATAATACTCTTTAAA
AAGCTGACTATAGGACTCCAGTCCCCACTGGTTTGTCTTTGCCACTTGGCAAAGGTTGATTGATTTTAT
TTTTCTTTTGGCCTGTGCTTCTTAGTGGCTTGAAATGAACACGGCTTTTTTTCTGTTTACCCCTTTGCC
CACATTGTCAATAATAGAGTCGCCCTGGGAAGCAGAGTTTGCAAAGGGAGGAGGTTTGGTATAAATTTG
GAAGATTGTATTGTTTCAGATTTATTTTCTCAAATGCTGAAACTGCTTCTCAGGGGTATATACTTCTTTAC
TCATGAAAACCTCACACATTCTCTTAGGTGGTACTGTAAACATGTTACATCTGTAAAAAAATTAATAAAA
CGTAATGAAAGAAGCAGGAAGCAAGTGATACACATGGTGGCCTGAGCAATTGGCTGTCATGGTTTGGTT
TGATTATAGGTGTGTGAGGCACATGTATGGTGTGCGTGGAACAGATGGATAGAAGTGGTAAAAAAGATG
AATCCAACCTAGTGCTTTTCAATTCTCCTTGACATGAGAATCACCTGGAGAATTAAAAAAAATACATTG
ATGCCGACTGGGCACAGTGGCTCATGCCTATAATCCCAGCACTTTGGGAAGCTGAGGCAGGTGGATCACT
TGAGGTGAGGAGTACGAGACCAGCCGGGCCAACATGGTGAAACCCTGTCTCTACTAAAAATACAAAAATT
AGCCAGGTGTGGTGGTACACGCCTATAATCCCAGCTACTTGGGAGGCTGAGGCAGGCAAATCTCTTGAAC
CCGGGAGGCAGAGGTTGCACTCAACCGAGATTGTGCCACTGCACTCCAGCCTGGGCAACAAAGCGAGACT
CCATATTAATAAAAAAAAAAAAAATTTGATGCCTGAGTCTCTCCCCAAAAATCGGAACATCTGTGGGTGTG
GGTTCGGCATGGATATTTGTAAAGTCTCCGTAGCTGCAAAGCCAAGTTGGGAACCACTGATAACCAACAG
AAAAATGCTTCTGGAAGTGTTCGGGGGAAGGAGTCTAGCCTAGGATCAGACACCTGTCTGGGCTCAAT
ACAAACCACTGGTTTTTTTTTTTTTTTTTCTGAGATGGAGTCTTACTCCGTTGCCTGGGCTGGAGTACAGT
GGCGCAATCTCAGCTCACTGCAACCTCCACCTCCTGGGTTCAAGCGATTCCCCTGCCTCAGCCTCCAGAG
CAGCTGGGACCACAGGTGCATGCCACCCTCCTGGCTAATTTTTTGCAATTTTAGTAGAGACAGGGTTTCA
CACTGTTGGCCAGGATGGTCTTGATCTCCTGACCTTGTGATCCACCCGCCTCGGCCTCCCAAAGTGCTGG
AATTACAGGCATGAGCCACCACACCCAGCCACCCTGGGTTTTATAAACTCTCAGTAGGCCTCCTCTTCT
GGCCTGGTCCCATGCTATCTGACCCTTCTTGACATTCAAAAAAAGTATTTTTCTTTAGTTGAACTCCAGG
AACATGAAGTGGCATTAAACAGAAGTATGAATTGCCTTTATTAAAATTGCAGTGGTCTTTTTCTTACCAA
AGGTCTGACCCAGTTGTGGAAAAATGTTTCTTGAATGTGGGTGACACATCTGTTTCATATCTCCAAGG
CAATGCCTCAGAGCCAACCTCCTCCCCGTGTGACTCAAGGATGCCACGTGTCCACATGTGGCCTGTTTT
CTTCTCTTAACATGGCCTAAAAGGCCCTTATTGAACTCCCGTTAGCTTTATTTATTTATTTTGTAGATGA
ATTCTTGCTCCGTCACCCAGGCTGGTGTGTGGTGGCGCAATCTCGGCTCACCAGCAACCTCCGTCTCCCAG
GTTTCGAGCAAATCTCCTGCCTCAGCCTCCCAAGTAGCTGGGACTACAGGCGCCTCCACCACACCCAGCT
AATTTTTGTATTTTTTAGTAGAGACAGGGTTTACCATGTCCGCCAGGCCAGGCTACTCTCAAATTTCCCGA
CCTCAGGCGATCTGCCTGCCTCAGCCTCCCAAGAGCTCTCCTTAGCTTTGAAAGTAAAAGCCAACCCCTT
TTGGCTGGCCCATGAGGCCCCACACACCTTAGCATTCCTGTTACCTCTACCACCTCCTCTCCTAACTCTG
CCCTTTGCTGGTGCCAAATTTGACTGCACTAGTGTCTTTTTGTGACTGCAGCTGTGCCTGGGACACTCCG
GTCTTTGCTCTTGCTACTGTTCTGAGCTGTTTATGTCCAGAATGCTCTTCCAGCAGTTAGCTACTTGTTT
CCTCTGAGTCTTCAGGTAGCTGCTCAATATCAGCTTCTCAGTCACCCTGTCTGATCACCTGGCTTATAAG
TCCAGTCCCTACCCCTGTACTCCCCATCTCTAATCCCTGCTTAATCATCGCCTTAGCACTGTCAACATCT
GACTTTCTTTCTATATATATTTTTATTTATTGGTTAGCTCGGCTGCTTCAATAGATACCATAAACTGGGTG
GCTTAAATCAGACATTTATTTCCACAGTTCTGGAGGGTGGAAATCTGAGATCAGGGTGCCAGCATGGT
CTGGTTCTGGTGAGGGCCTCTTCCAGGTGCAGACAGCCACCTTGCTTTTTTTCTTTCTTTTTTTTTTT
TTTTTTTTGAGTTGGAGTCTCGCTCTGTCAACCCAGGCTGGAATGCAGTGGTGCCATCTCGACTCATTGCA
ATCTCCACCTTCCAGGTTCAAGTGAGTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGACTACAGGTGCACA
CCACCACGCCAGCTAATTTTTATATTTTAGTAGAGACAGGGGTTTTGCCATGTTGGCCAGGCTGGTCTT
GAACCTCTGACCTCAAGTGATCCACCTACCTCGACCTCCCAAATGCTGGGGGGTCTGTGAGCCACCACGC
CCGGCCAGATGGCCACCTTCTCCCTGTGTCTCATGTAGCAGAAAGAGATCAAAGAGCTCTTTTGTCTTCT
TTTATGAGAGCACTAATCCCATCACAAGGCCCTGACCTCACAACCTAATCACCTTCCAAAGGCCCCACTT
CCTGTCCGCATCATATTGGGGGTTTGGATTTTACGATATGGATTTTGGGGGGACACAAATCTTTTCAAGTCC
GTAATAGTTGGCCTCCTCCCTGTTTCCACTAGAATATAAGCTTCAGGAGGTGAGGGATCTTTGTCTCTTT
TGTTTACAGCTATGTTTCTAACACCTACAACAATGCCTGGCACATGGTAGGTGCTCAGGAGATAATTATT
GGATGAAAAAATGAACCGGTCTCCTCCTTAACCCCTGAAATCCTGTTTCGAGTGCCTGGGTTTGCCTTG
CTCCACTGGGATGAAGTCTGGCTTGGTGTCTTGTCTCCAGGGGTAGACGCCCCGTCTCTGGGAGGAC
TTGAGGCTCTCCTGGCCTGCTGCTTGGCCTCCTTACCTGTTCTGCCCACTCAGAGCCCTGCCAGCTGCCT
GGGATGGCTGCCGGGCACGTCTTGTCTGCTCAGTCAACCAGTTGGGGCCTTGGTTTGGACCTTCACT
TATCTTCTGTGAACCTACCTCTCTGGTCCCCAGCTCGTCTTCTGAAATTTTGTGTTTGGTCAAGCCC
AGTCTTGTGTGACATCCCTGTGAATGATTCTTAATTATATTTCTGGCTGGCTCTGTGCAGTAGACCATA
GAAATAACGATTGTTTCTGGGGTTGCGCTGGAGTGTGAACAGGTGGGGGAAATGCCTCAGGACGATTGGA
CCGAGGAGACTCTGAGATGACTGATGAAAGCGACAGCAAGAGCTTCCACGCTCCTGATGGCAGGAGGGG
ACGGCGGTGCTGAGGGGTGGGGGAGGCTCAGGGGGAGCTGTTGAGGGTCCCGTGTCTGTCATTTCTCTAG
CTTCTCAGGCGCCTTGATCTTGTCAATTTAGAAGCCTCTGGAAGCACAGGGACTGTGGAACTGGAAGCTG
TTCTTGGACTATTTTCGCAACACTTTTCTCCAGGAAAAAGAAAAAATAAAAAAAGCCTCATTCTTCTCGT
CCCCAATGTTACATAATCGAACATTTCCCGTCTGGTTGAAATGAATATCCTCTTTGCCTGAATAAATAA
TGACACAGATTCTTCGGGACAGGCTGCTTCCCTCAGGCCCGCCGCTTCCAAGGGATCCGGTCTGCTTTGTGGG
TTTAGTGGTGGCCACAGCTGGACGCGGGGTCCAGCTTGGGGTGGGGGAGGCGGTCTTCTGCCAAAT
GTCTTTTAAACGTCTCAACAAGTAGCAAACAAGGCCCCACCTGCGACAGTTGTAGTGATTCCGGAAGACC
TGCTCACCACGAGGTGCTGGGGTCTGCTTGCAGCTGGCAGTCTCCGGTGGCTGCAGTTTAAATAAATCTCC
TAAGTGACAGAAATCACCACACAGGGCGCGGAGAACTGAAAAGTTAAACATCTGGAGTTACAAACACTCA
CAGGCCATCAGCTGTCTGAGTCCCCGTAGGAAAAGTGTATCGGATGCTTTAGTATTCAACCTTTTAT
TTCTAGCACAGGTTTTTTGATTTTACATGGAGTGTGTTGATTATTTTCCCATGCCCAAGTCACTGTTTT
CATAGCCTGTTGTTTAACTGTGTGCACCTTTGTTTTCACTCTATTTCTTTGCTTCTCTATATGAGAAA
AATAAATGGCACCATTTGAATTGCACGGTAGAGGCTGATGCTATTCCAGGTGCTCAGGTGGCTTTCCCAT

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CTTTCGTTTCCTCCTGTAGGAAGTTTTTTTTTGGTATAAAGGGAAGGACAGAATTGGATCTCCCTGGAGGG
AGTTTCATGTGTTTCTTATTCTGAGCTGCCGGGAGCTGGTTCACAGCACAACCTTGATAATTGCTGAGTAG
ACCTAAAGTTTTGAAAATCAAGATCTCTTTGGAGTTTTACAAGTAAAATTTCAAAAATGAGAAATGACTA
TCCCAATTTATTTTAGAAGAAAGGTGCAGCTTGTAACCTTTTCATGAATTTGGTAAAAGGGGGCTAATTTG
AAAAGGAAAACATAAGGCAATATTTACAAATTGTGAAAAATATCAGAATAGTATACGTGGAAGAGTTAT
TAGACATTCATTTGCAGTGGTAAACCCATTCCTTTGATTCTGAATCTTGTTTAGGTTTCCTTAAGAATT
TGATGAAGTTTTTCAGACTCTTCCTTCAGAAAAATGCACATATTCTTATGTACCTAAATGTTTGGATATGA
TTTCAGGGGATTCCAAATCCCCCTGGGGACCCCCCATGTGGATGTTTGTGATGCAGAATGGGGTAAGAAAA
CCAGGAGAGCCTACAAAAATTTTATGAAATAGAAATATGAACATACAGTACTGAGCCAAAATTTAGTTGT
GAGGAAAAATGATGTTAAATGCATTCATTTTCTAAATGATGACAGAAAATTAGACTCATATTACTATCCGG
GTGAAGCATATTTTGTACTTATGGTGACCTAGTGATCCAAATGCCTGCTCTTTGGTCTTATCCTCTTATC
TTCTTATGTCAATACTGGGCTGCTTAAATATGTACTGTCTCCGATGTCATTATCTAGTTTTGTCTTTG
TTTTCTATGTTTTATCTTTTACTTCTTGTTCCTATTTCAAATACTTTGACGGTATTGGGACTTGGGGACA
TGTCCTTTCCAGTACAGATTTTGGTATTGTAGAGGGAGGTTTACAAGCCCAGGTGGGTGTACTTGGGGAC
TGAGGCTGCTCAGTAGCCCTGTAAATGGTCAGAGTCTGCTGTTTCTGTTGCTTGGAGAGCAAGGTGAATG
CAGGTCTCTTTGGATATTGGGGATGATAGAGGGATGTGGATTGGAGAGGAACAGGACTTCCTGCCCCCTC
AATTTAAATGGAGATTCATTTGATCAAAAAAAAAAAAAAAAAAGCACATATATTCACCAGGCCCTGTGTGAA
CTACCACCTGGATGTAGGTGGAGTAAGCCATATTCAGGTAGCCTGCAATCAACTGCAATCCATTGGT
GGTAGGAGGCATGGGAGATACAGAAGTAACTCAGGACTAGATTGAATTGGCCACTTATCTAAGAGTGTTA
TCAAGTGTCTGTAAATGTGTGAATTCTGATTAGTTATCAGGTTGTCATACATTTTTTTTTTCTTTTTTTT
TTTGAGATAGAGTCTCACTCTGTGCGCCAGGCTAGAGTGCAGAGGTGCTATCTCAGGTCACTGAAACCTC
CACCTCCCAGGTTCAAGCAATTCTCTCACCTCAGCCTCCTAAGTAGCTGGGATTACAAGCATGTGCCACC
ACGTCTGGCTATTTTTTTTTTTTTTTTTTTTGTAGTTTTAGTAGAGATGGGATTTACCATGTGGCCAGG
CTGGTTTTCGAACTCCTGAGCTCAACTCATCAGCCCACCCCTGCCTCAAAAAGTGTGGGATTACAGGCCGT
GAGCCACCACACCTGGCTACGTGTACATAATTCATTTGTCTCCCTTCCTAGACACAAGCTCCTCAGGAT
CATATGTGTTCTTCCTTGCTGGCACAGAGGAGATGCTTCAGTAGTGCTTGTGCTAGAGGAGAAGGGTAC
AAGTGGCATGTGGAGAGATTAGAGAAGGGTAGAATAGGATGATGTTGGGCCATCAGGAAGGTCTCCATG
GAGAAGGTGTGCTTTGAGATGAACACTGAGGAAGTGGTGGGATCACACCTGACCTAGATAGAGAAGGGGC
TGAAATCCAAGCATAGGATGGTGGGAGCAGGGAAAGAGAGGTTGACTGAAGTTGAAGGCTGGAGAGGTTG
GCTGGAGACGGGTGATCAGGGATATGGTAAGTGGTTTGTGCTTAATTTAATCTTGCAGTAACACGGTGAG
GATGATTAATCGGGAACATAATCTGGTGAAGGTATGTTGGACGGATTTCGAAATGGTAGAGGCTGTCCGCA
ACCAGACCAATTAGGACACCATTGCAAAAGTCCAGCTGAGAGCTGAAGAGGATCTGACTTGTGACAGGGA
GTAGGACAAACAAGGGATGGAGGCTGGAGGTATTTTGGAGATACAGCCTGCAGTTCTTATAATCCAACT
TCCCCAGAATATCTCAGCCCAGGAATAAAAAATAGGATGAAAACAACAATAACACAATAATATTTTATCTC
TGCTTTCTATCAACTGTTTGCAACCTGCAATTCTTCTGGTTCTTCTCTCCTGCGGGGCCAGGTGAACAG
GCAGGTGCTGAATATCACTGCTGGGCTCACAGAAGCCCCCAGTGCTGGGGGGCCAAGGCTGCGGCTGCTG
GTGCCAATCAAAGGCACCCATAGGCAGGACCCCTCTTCCACTAGGTTTCATTGCAAACGGGAAGCCTCAAG
GCAGGCGCTTTCCACTGCTAATCGGTACCTGGTACAGGAATTAAGGCTTCACTTGTGTTGTTCTGAGGGG
TTTACAGAGATTTTCTTCTGTAAAGCCACTGCTCCTTTCACATAAAATTCGGAGTTTGTGCAAGCTGGG
AAGTTAACTTAGCAACAGAGTCTCTGCTGTATTTAAATATCATTTTTGTCTGACACTGGCCTCCTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTGTAGACGGAGTCTCGCTCTGTGCGCCAGGCCGGACTGCGGA
CTGCAGTGGCGCAATCTCGGCTCACTGCAAGCTCCGCTTCCCGGTTTACGCCATTCTCCTGCCTCAGCC
TCCCGAGTAGCTGGGACTACAGGCGCCCGCCACCGCGCCCGGCTAATTTTTTGTATTTTTAGTAGAGACG
GGGTTTACCTTGTAGCCAGGATGGTCTCGATCTCCTGACCTCATGATCCACCCGCTCGGCCTCCCAA
AGTGCTGGGATTACAGGCGTGAGCCACCGCGCCCGGCCACTGGCCTCTTGTCTTAGAGGAAATATGTGA
ATTTCTCCTTTCTGCTCAGAAGTACACCTTAGTAGTTGACAAACGTAAACTACCCGAAGGGCCAGCCTTC
TCTGGATCCTACTTGAGACCTTGCTTCTGCTGAGAAGTGTGTGCAATTTGTGTATCTGGTGATCGAGATG
TCTGGAAGAGTGGGGAGAAGACTGAGGGGCAGATGGGGAGTAAGAAGGGTCAGAAAGCTATTTTGGTTCA
GCAGTATCAATAATGTTTTGCTTTAAATCATTGTCTTCTCAATGTTGCTTCCCTTGTCACTCCTGTAA
ATATGATAGCCCATTTATCTTCTAATAGAAAATTTTTCATAATTATTTCTCACATAAGATGTTTATGG
CTTTATATATATGTGTGTATATAAAGAGGAGGCACATAATTTATGAAAGCAGATTTTAAAGCCTTTCTA
CAGATGAAATGTAAAGTTCAATTGCATTTTTTCTTTTGGAGATGGGTCTTACTCTGTCACTCAGGCAAAA
GTGCAGCGGCACGAACGTGGCTCACTGCAACCTCAAACAGTTCTCCACCACAGCCTCCAGGTAGCTGGG
ACCACAGACATATGCCATCACATCCAGCTAATTAACAATTTTTTTTTTTTTTTTTTTTTTTTATTTAG
AGACGGGGTCTTTCTACATTGCTCAGGCTAGTCTTGAACCTTCTAGGCTCAAATTTCTTGATTTCTTCCAA
AAGTATTTTCTGCTTGACATTGTCAATTTGAAGAAAGATAGTTTTAAAAAATTTGAAGAAAGAGACTATT
TTTATCCCTATAAGCTTGAAC TAGGGCTTTCATACTGAGTAAAGACAGTATACAGTGTCAATTGAGGATG
GGTCATATTATGGCTCCGTTGTGCAACACTCTAGATCTGGACACTGAAAAGTGGACTACTGATGGATTTT
ATGCCTCTGCTATAAAAACCAGCACCTGGGGCTGGACGCAGTGGCTCACGCCTGTAATCCCAGCATTTTG
GGAGGCCGAGGCGGCCGGATCACGAGGTGAGCAGATCGAGACCATCCCGGCTAACATGGTGAAACCCCGT
CTCTACTAAAAATACAAAAAGAAATTAGCCGGGCGTGGCGGCGGCACCTGTAGTCCCAGCTACTCAGAA
GGCTGAGGCAGGAGAATGGCGTGAACCCGAGAGGCGGAGCTTGCAAGTGAAGCGAGATGGCGCCACTGCAC
TCCAGCCTGGGTGACAGAGCAAGACTCCATCTCAAACCAACCAACCAACCAACCAACCAACCAACCAAC
CAACCAACCAGCACCTAGGCCCTGGATGCGTGTAAAGGTAGCTAAACACTCTTAGGTTACACTATTCTG
ATGGGAAAGACCACAGAGGTGCCCTTGGATACCTGGTAATAAGGGCTATAGAAGAAATTATGGAAATTC
TACAACCTGTGAGTACTATAGCCAACCATGCGGCTATAGCCAGACCCTGCAATGTGCTCATGGGTCCA
GAGCCCCCTATGTGTTATCTCAGCTCATGGGCTTTCTCTGTTCTGCTAATACTTCACTTGTAGGAGGCT
TTCTTACTTTGGCCTCCATGCCACCCTGAGACATGCCCTTGTCTTTGCGGCTCATGACCTCAGTGCAG
GTTTCCAAATTCATACCCTCAGAGCTTGAATGATTGGTCCAGTTCATCTTTTTCACATTTGGTCATGTCC
TAGGTCACTGGCCAGTCTATAGTTTGGCTGATCTTTGGTTGGGTGTCTCACCATGGTCCAGTTAGCTGTG
ATCTGAAGTGGGCGTAGGGTGGGAGGTTGTATGAACCTGAGTTGGTTGTTCAAGTAACAGGAGCTGAGA

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GCATGGCAATTTTCCTTAGAACGATAGTGAGTGAGTGGTCAGGTAAGCAG
AGTTTCAATTTTGGTTGCTCTTCACGAGGAAAGCCAGAAGCCCAGAGCTGTTTTGCTAGAGTGATAGAAC
TGAGATAGTGTTTTGAGCAGTGCCAGTGGGAACATCTTTGCTGAGAAGAACGAATAAAGAATTTTGGCA
ATTAACATATGTAAGTCCCAGACTCTGCTATCATCTGGGGTGGCAGATAAAAACACACAGTCCAAAT
AAAAAACCTGATTTTTTATTTTAGCCTGAATCACCCAGATCACAGCAGGATTTTGCTTGAACAACCCAGA
CAGATTGCATTCAATTTCTGCTTTACTGTGCTTGTGGAAGCCAGGCTGTTAGTGGTTTCTTCTGGAATGG
GAGAATGTATCACAAAAGGTTGGAACCTGAAAAATTTCTAGAATTTCAATTGTTCTGTGCTTCTTAATAA
ACAATGTGACACTATCAAGGAATGTGTGTTGACCCTCTTTTTTTAAAAAAATAAAGATGTAGTGGATAGC
ACAATTTTGATGAAATGTCAGGCTTTATTTTTTCATTTGAAAAATGTGTGTGAGGGAATCAGGTGTAATGG
CATGATACATCTCTTTAAATTATACTTACGAGATTAAATTTGTCTGTGTTTCAATTACACTGTATTATA
CTGCTTCATTTAAATTGTTGTTTCTTCTTTTTTAAATTGTTCAACCTAATTGTCTAATAGTGATGAATGC
AATTTAATTAGACACTTTTCCTTGAAGGATATATATATATTTTCCCTATAATAAAGCACAGAATAGTTTA
AAAAATGTATTGGTCCAAGCACACATTTTATTTTTTAGTGATTTTCATTAGAACAATAAACTTCAAAATGA
TTCATAACAACCTTTCTGGATTGATTTGATGGAAGTGTGTTTACCCATTCACTGATAAACCTGTCAACAG
TTTCTCTCATGACACATACAAAGCACGTGTGTTCCCATAGTGTGCTTGTGTGTAATTCCTTGTGCT
GGTTCAGATTCTGAAATGGAGCTTTAAAGCATGGAGGCTTGAGTTGGTCCATGTGAGTTTGAACCCCTGG
CCGAGCTGGTATGGGTACTTAATCTCAGTATCCCAGGTTTCCCTCAACTGCAAAATGGGTTTTTAGTAG
TACTTACCTCACTGGGTGCTACAAAGATGCTTAACTAGTATCTGACATCTAGTACAGCCAGCCCTCCA
TATCTGTGGGTCCACATCTGAGGATTCAATCAACCTCTGGTTGGATAAAAAATATCTAGGAAAATAGCT
GCATACTAGGGGAAAAAAGAAAAAATATCCAGGAAAAAATGTGCCAGTACTGAACATGACTTT
GCTCTTTTCATTCTCTAAACAATATAGTATAACACATATTTACTTCACATTTACATTGTTTTAGGTATTA
TAAGTAATCTATGGATTATTTAAAGTATACAGGAGGATGTGCATAGGATATATGTAAATACTATGTGATT
TTATATCAGGGACTTGCTCTGGAACCAATATCCCAACCTAATACTAAGGGATGACTATATATGCTCAGA
AGACATTTGTTGTCATTTTTATTCTCTTGCACCTCAAGAAAGCACATATTGGAATGCAAACGAATATCAAT
AATAGTTTTTTAAAGGATAATTAAGTTAATTTATAATTTACATACAATATACATTGTACATTTATATTTT
CTAATGAAAAGGAAATAATCTATAACCTTCAGTTCAGAATTCATTAGCTGTCTTATTTTGAGAAGTGTG
CTCTATGTAATTTTCGTCTCTGTATTGATGTGTAACCTGGTTTTAACAGGTAGCTAAATGCTGTTTGAA
AAGCATACTTCACCCATTCTGGCAACTAAAAATAATTGAAAGATTTAATTAATTTAGAAAAAATTTGCT
TTCAAAACACTTGAAGTGTTCAGAGCATGTTATTCAATAATCTACCTTTCACCAGAAATCATAATAACA
CAATAAAAAATGCTTACAGAACCCCCACAATGCGTTAGTATACATGATTATTCTTGTGTAAGTGAATCTT
GTTGAGATTTTTATGCTCAGTCAATTGCAATTAATACTTTATATATTAATACTAAATGTGCTCTCTAT
GTATTCTGGAGAAGTTACTCTCAGACAAATTTACATATTTAAATTATTTTATGGGCTAACTGATAAGTAT
AGAGAAGACTGAAGACAGTTAAGATCATTGATTTCAAATGTTTTAAAGTGTGATTATTTATTTTGGTT
TTCTTTCTTTCCCATGCCAGTTTTGAGATGCACCTCTTACTTGGCAGGTGTTCTCTGTACTGGGTACTG
GGACAGAGAGAAATACAGTAGCAAGAGGGAGATCCTGCCTCCGCCCCATTCTACCATTCTCACTGCCAGA
AAGCCAGCCTTTTTTCAAGGCTTGTAGAGAAGAAAAAGAGAAATATTTTTAAAAATTCATTTAAAGTAC
CTACTGCATAAACCACACCAGACATGATGAGATATTAATGTCAATATTATTAATAATTTTAAATATGA
TTTTACAGCCCCCTTGTACTTTTAAATGTTTATCTTAGTGTAAACAAACAATCAATAACCTCATAAAC
TTAAAAATGCTGCAGGAAATACCGGACAGTTTATGGAAGGATCATATGACAGAAGGAAGGGCTGAAGAG
TGTGAGAAGCTAGACCTCTGCAGGTTACCGAAGTCAAGAACCTCATTAAATCGGTAAACAAGAAGTGCAGAG
CGGGCTTTTGAGTCCATGCCTGAGTAAGAAAGTCCCAAAAACACTCACAGAAGATATTTCTTGGCCCT
GCTTTTAGTTTAGCTGTAGCTAACTTTGGATTAACAAAATTTATGTGCTGAATGATGTTTTATTTTTTT
TCCAACCTCCACATGCCTGTCTAGACTTCAAGCTTTATTACGAATAAAGAGAAAAATCGGCTGGATGGCATA
AAAAATATTTCAAGGAGATTAAACACATGATTTACCTCTTCTTGAACATCCATCTTAATGGAAGTGCTAAG
AAAGTTAGATTTCGGGCTGGCTTGGCAAAAGCAAGGCCACCCCTCTCTATTTTTTCAATGAGATTTTC
CAATCCTAGTCAAATGGTGGTGCTAGTTCTTTATTTTGAAGTACTGCATTTTCTAATTTTCATGGTCATA
ACAGCCTCTGTCTACCGACTCAGAACGGATTTTACCAAACTGAAAATGCAGGCTCCATGCTCAGAAGC
TCTTTAACAGGCTCGAAAGGTCCATGCTCCTTTCTCTGCCCATTCTATAGCATAAGAAGACAGTCTCTG
AGTGATAATCTTCTCTTCAAGTAGGTAAGTCTTCTCTCAATTTATTTTTTCTTCTTTTGATATAATG
TGCTACTGTTTACAAGCATATTGTAACCTCAGAGCTTACCTCTCATCTTTAAAAAATGTTCAATTTTTTG
TCTTCTGCTCCAAGGATATTTTGCAAAGTTACTGGCAAGTATTCCTGGGATGATAAAATGTGAAATCTA
AACTTGGTACAGTGGAAATTCATTTCTAGAATAATATTTAGCTGAGGCAGAGGGCAATCCGACTACCCCTT
TTCTTAGTACAGCACACACAGGCTGCCTGTCTGTTCCAGATAACATAAATGTATTGGATCTAGCACTAGC
TAGGAGACACTGTATTGTTGAAGTGTGTTAGAATTTTATAAGCTCTTAATTGGACAAATCTCAGAGTAGC
ATGAACACACTACCTGTTTTCTGAATCTTTGGAGCCATAACTTACGTGAGTTTGAACTAAGCGATGTGAA
TAAGCCATTATTTGTTTCTTAAAGGCAGTCAAGTTTTCTGAAAAGCTACACATTTAGCAGCAAAAGAAGC
AGCCCCCTCTGTCTTGAAATGGGCTCTGATTTTAAAGCAAGCTCTTTTGAGTCTGGTGTCCCATTTTCTC
AGTTCTTTTTTGCCTCACAATGGCACATACATAATGACTCCACCACATATAGCAGTGGGCTACTCGGGTA
ATGATGTGGCAGTCACAAGACAGGGCAGAATACTTTCAATTTGGTTAGAGGAATGCCACATGTCTTAGGA
AATGCTCGCTGAAGTGAAGTTTCATACTTTGTCAAGAAGATAACCAGTATTCTCTCAAACAAGTCCGTA
GGAGCCAACATGATTAAGAGATTTTAAAGCAATTTACTCGATAGAAGGGTTGGGCTTAATCAGGACTTGT
GATCATGGCAATGGTTTCTTAAAGGTGCCAGATTTTAAATGCCTTTTTTGTGCCAGATCTAATAGGC
TTACAGAGCAACTCCATGTATATGAGGTTGCTGGGAACTCATCTGGTTTTGAATGTGGTATATACATAT
TTTAATATTGAGAGTAACTTAGGAAGACCAGGTAGAAGTATTTGAAGTGAATTTCTGAAACGTACAGAGA
ACTTAAATTGGATGAGAATGTTTGAAGAACATGGATGGTTCAGGGTCCATTTGTATACCGTAAATCCCT
TCCTATTTCTCAAAAGCAAATGTTTTCTTTGATTTTGTAAATATCCTGTGATGACTGCCCCACTAGGCCTT
GGAATGCATGCAGATAATGCTGTAGCAGTTGGATAAAATACTCTAGAATGTCAGATTTTCAAGGAAATTA
CAATAAAAAACAATGTAGGTAAAAGATACGACATGTAGGAAAAAAGCAAAATTTTCTTAAAGAATACAAG
CGTCGTATTTACGAGTAGAAGATTTTCTTGGACATTTGGAGATACTTGTTCATTTTATTGCTTGTGAC
AGTCAAGGAAAGGAATAAAGCTCTTGTGTCTTAACTTGCAGCAAGAACAAAGTCCAACATCTTTCGTT
TCIGATAACTCTGTGTCTTTTTGTTCAATATTGGGTTTAGAGCTAGCTACCATCTACCTTCCCTTCAAAC

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ACTCACTCTAAACCTCCACACAGTGTAAAGTATTTACATCAGGCATCTGCTAAACATTTTCACATGGTTAT
CTGCAGGTCTTCTCTGAGTCTGTCTGCATTCAATTTATCCTAGTTGCTCAGAACAATCGCTTGGGCTGACG
GCCTGGTGGTTGAGTTTACTTTGCTTTGAATAGGGAACAGCTGTGCTCCAGGACTGCAGATTGGCTATTC
GGAAAAAGGGCAAGGAAGAGAGTGACCCAGCTCTGGGTAGACCATCCACACTGTAAAAAAGTCAT
AGCATAGTCTTCATCTATGGCAGTGGAGATATGGTCCTGTCCATCCACCTCTATCAGGAGAGGGTCTCCA
TTGTTAATCTCTGAGAAAGAGGCTCCATCTGTGAAACCTCCTGCATATTGTCTAATGAAGTGCTATTTTG
AAAGGCGTGCACTGTACAGGTAAGAGTGATGATGGTGTGCCTGCCTTCTGGGCAACATCTCAGTAGACTT
CCTCTGAATCATTCCCCTGGACCCAACAGCAAAAGCGTACACATCATTGAGTTTTATCGTTCTATCTAA
GGCGTATAACATTTTCTCTCTGAAAGTCTGTGATTCTTTTCGGAGAATGAAGGGGCTTACCCTATCCATC
TGCCCCCTAAAAATATTCGCTGGAAAGCTGATACCTCTGCTCAGGTTTTCCACAGCAGATCACTCTTCAGT
AAGAATTCTGATATTAAGTAGTTTAATTCAGATCCATGGAAATGACTGAGTACCAGCCATAGCTCCAC
CACTCTCTAGCTGTGCAATTTAGAGGCAGATTATTTAACCTCATGCCTTGAATTTCTCATCTGCAAAGTG
GGAGTACTAACAGTAGCTACCAGATATATTATATGGAATAAATGACATTAAGCCACTCATTAACTCCTT
GCAGTTTCCAAGCATTAGAACTCAGTATGAGGAAGTTATTTCTATTCTAAGCCTAGCACAGTGCCTGGT
ACTCAATACATGTTGGTTGAATCAGTGAAATAATCAAGGTCAGCACCAAGCTGCTAGGAATTTATGAA
CATCTGATCATAACTGGAACTTGATCTAAAAAGCAAAGGGCAGTCAATCCAATCAACTGAGCGTACCAT
CTGTTGAAATGCTGCTGCTTCTGTAATGAGTATAAAGTGTGGAAGAGAAAGTCCAGGAACCTCCATCAT
TCTTCCTTCCATCATTCTCTCCTTTGTGACTATCTTTGTGATGAGAAGGGTAACAAAAAATCTTGCTG
AGATGAGCGTGTCAAAAACGTGTTACAAATGCTTCACATTCCTTTTACATCAACAGAAGCATGTTGCTT
CATTGTTGGGCAATGTCTTAGTCCATACACACATAGAGCTCTATGCTGATTTTTTTTTTGAGATGGAGTCT
CGCTCTTTCACCGAGGCTGGACTGCAGTGGTGCTTTCTCAGCTCACTGCAACCTCCGCCTCCAGGTTCA
AGCAATTCTCCTGCCTCAGCCTCCAGAGTAGCTGGGATTACAGGCATGTGCCACCATGGCCAGCTAATTT
TCATATTTTTTAGTAGAGACGGGGTTTTACCATGTTGGCCAGGCTGGTCTCAAACCTCCTGACCTTAAGTGA
TCCACTCGCCTTGGCCTCCCAAACCTGCTGGGATTACAGACGTCAGCCAGCATAACCCGTTGTATGCTGAT
GTTCTAATTCATGTGATACCAAAGACCTGAGATAGTCTCTCCCACTCTGGCCCCATAACATATGTCCAC
GAGGTGGTAATAATAACAACCTATAGTAGCACCTAAGGTTGGGGCAGCTCTTACTTTGTGCGATGCTTTTT
ATAGTGTTATTACGTGTGATTCTCACAGCAACCCAGGTGGTGAACAACGTTATGATTCCTGTTGTACAA
ATGAGGAACTAAGGCTTTGCAAAGCTAGGTAACATGCCCAATATTACACAGCTTCAAAAGTGACAGCCC
TAGGACTTGAAGATAAACTCATCTAATTCCAAAGCTCATGCTTTTAGCCATTACTTGAGACAGTATTAAC
TTTTAAAGTTTGAATCAATATGAATTTGGCCTTGGGAAAGCAGGTTAAGCATCTGGGGTTGATGGGAGA
TAACATTACACCCTCTCTTAGCCTCAGCAACTTCATCTGTAAAATGGGAATAATTACATCCGAGTCACAG
AAGTTTTGTGGCTCTTCATGAGGATTAAATAAAGTAATGCATGTAAAAGAGTTTTGTACAAAGTTCACTT
TTATAAAATGCAAGTTGTGGCCGGGATTGGTGGTTCACGCCTATAATCCCAGCACTTTGGGGGGCTGAGG
TGGGTGGATCACCTGAGGTCAAGAGTTCGTGACCAGCCTGGCCAACACGGTGAAACCCGCTCCACTAAA
AATACAAAAATTAGCCAGGAGTGGTGGCATGGGCCTGTAATCTCAGCTACTTGGGAGGCTGAGACTGGAG
AATCGCTTGAACCCGCGAAGTGGAGGTTGCAGTGAGCCGAGATTGTGCCATTGAACTCCACCTGGGCAA
CAGAGTGAACTGCATCTAAAAAAGACAAAAAAGAGTAAGTTGTTATATGCAATGCATAAATT
ATTACTTAGTTCCATGTAAAATCTTCCCACTAAGTGAATGAGGGTTCACCTGGCTGTAGTGCTATGAGAT
AGATATGAGGGGCAGATTGGTTTATGCTTCTCAAAAACAGAAAGTGTGCCAGGGTGGAAGTGTGGGTGGG
GAGTCTCCGCTCCAGCCATGTGGCAAAGCTGGAATGTGAGTACAGCAGCAGTATGGATGCGGTTTTGA
GGGGATGGTGGTAATCCTCTTCTGGCGGCACCCCTCCAGTATTGTGGGATGCTCTCTGATTTCTTTTGAG
AAGACAAGTAGCTAGGAGCTTCCCTAGCCTTTCTGTTGTAAAAACCATCAAGATCCCTGTTGAATGCATA
CCTGGAGCTTGGTTTTCCCTAAGCACAGACTTTAATAACTTCATTTGGTTTTAGTCTCCTATTTAAAGCTG
CCACCCACTCTCAATTTTTTTGGGTTTTCTACTAAGAATGGATATAACATGGGCAGTCTTCCAGTTCTCC
TTTCTTGCTGCCTTGAAGACAACACACAGGCCAATCACAAGGAGGCAGAGACAGGCCCAACAAGTTGAC
AATCCTAGAGAGCTTAGTGTGAGTAGACTTGCTGAGGTTTCTGACTTTTGCTGGAATAGGAGAGTGCCAC
TGGCTTTTTGACATTTCTTTTTCCAACGTGTTTCTTGTCAAAATGACCAGCAGCTCAGCTCCCCCTAAACA
TACCTCCTCCCCTAGATTGGTTCAGAGGAAGCCATCAAGGTCCTTTTGCAAACGGATGATCTGCATTTTT
GAGATCCTTCTTCTCTGCTGTTTCATAGAAATGGTCTCATTGGAATAATTCCTTTTGGAATGTTACTAA
GGACACCAAGAAATCAACAAGAAAAATTTGAGTGTATCTGACAGAAGAAATTTGGCTTTTGTACTCTAATA
ATTATTTATTAGAAGCAATAACTGGTCAGAAATTTATTTGCTTAAAAACCATGTAAAGAAAGGTGCTTAATA
AAGATAATTGCATCACATATAGTAATCCGTTTTAGTATCTTTACCTTAAACCTATGTGACAAATAAAGA
CACAAATTGCTCTTTCTTTCTAATAAGCAATTTTGGAAATTCCTTATTGGGAAATTCCAAATTTTACAAA
ATTTACAAAATTTAAATTTTGGAAATCGTACCTGCATCAAGTTTTCTGAAAGAATATTTAAGGATTAAG
GTTACTTAGAATCCAATATATGCATAGTTAATTTAACTCATATTGTTAAATTCCTTTTCTAATTTTATT
TAAGAAATGAGTAATATTGACAAGGGCCTTGCTGTGGTTTTATTATGGCTTGTCTAGAGTCTCTATTCCC
AGCTAGATTAAAAGTGCCCTCAGGGCTGGGCATGGTGGCTCATGTCTGTAATCCCAATATTTTGGGAGGCT
GAGGCCAGTGAATCAGTTGAGGCCAGGAGTTTGAAGCAGCCTGGCCAACATAGTGAAATGCTATCTCTA
CTAAAAATACAAAAAATTAGCCGGACATGGTGGTGCATGCCTGTAATACCAGCTACTTGGGAGGCTGAGG
CAGGAGATTGCTTGAACCTGGGAGGCGGAGGTTGCAGTGAGCTGAGATAACACCACTGCACTCCAGCCT
GGGAGACATAGAGAGACTCCATCTCAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATA
AATAAGTAGTGCCCTCGGGTGCATAGATGGGGTTGTTGAGGTTTCTACCTGTGCCTTGGGAAGTGCCCTGG
TACACACTGGTGTGTTGGCACATAATTGTAGAGTGAGATTGAGCCTGGCATGTTCCCTTGATCCCTAGACAA
TCTCTATCAGGTGTGATCAGTAAGGCACATAATATGATATGTGACTATTACAGAGTAGCACACTACAATA
TGTGCCTAAAGCCATAACATCAACTAATAACAATTCAGCAGAGTAGAATGTGAAGAGTGCTTGCAGAGTGC
TGAGCACCACGGTGAGGAAGTGTAAGAGAGAAGAGGATTTCTGGGTTGGTGCAGGATGGTTAGGGATAG
CTTTGGGTAGGAAGCGACTCTTGACCATGACCTTAAAGGACAGGTAATGTTTACATGGGAAAATACAAGG
AAAAGGAGGTGCATAATGAAAGGCATGGGGGAGGTGGTTTTGGGAAACCATCAGTCTGACAGAAACATAG
TTAAGAAAAGTGCAAGGTGGTGGTAGGAGGTAATTTAGAAGTGAGAGTCAGATGTCTTATTAAGGAGCT
TGAACCTTTATCTTGTAGGCATTAAAGATGTTGGTGTAGGATTGGAATGAAATAAAGACTTAACCTTAGAA
AAATACTGTGTGGATTGAAGTTTTAGATGAAGAGTGGGTACATCAATTCGGAGGTGAGGGAAATAGTTC

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AAGGGAGGTGTACACCATTAAAAAAATCTTTTAGGACTTGTTTTTTGCAATCATGATTGTTTTATGGTT
GTAAAGATTTTGTTCAGAAATGATTGGTGGAGAAAGAAGTGTATTGAGAATCAAAAGATGGGACTGTGC
CACTGATGTGCGCAGTGAGAAGCTGCAAGCTGGTGCCCCATCTTCTAACTGTAAATGGGCATAACAA
CTACCAGACAGCCGTCAAAACATTATACTAGTGATACAATGAAGACTAAGTGATATAATTTTGAAAGGCA
GTATGCCTTATATGTGTAAATGCTGTTTACTTGGAAATATTTTATAGTAAATTTATTTCTTTGGACAA
GATATAGATGCAGAAGAAAATGATCATATTTCTGTGAGATTAGGATTCAGACCATTTGAATTTTTTATAT
TTATTAAATAGGTACTTTATGTTGGGTACTGAATAAGTCTTTTATTTTAAACACCTCATTTCCCTCACAA
AATGGATGGCATCTTTGGACTAGGGGAAATGTGTGGTCCCTGCAGCTGTAGTATTTTATGATTCTATAGC
TTTTGCCTTTAGCAAACTTCTCTTAGAATAGTGATTTAAGGGCTGGGTGTGGTGGCTTACACCTGTAATC
CCAGCACTTTGGGAGGCTGAGGCAGGCAGATCACCTGAGGTGAGGCATTTCGAGACCAGCCTGGCCAACAT
GGTGAAACCCCTTCTTTACTAAAAATAAAAAATTAGCCCCGTGTGGCAGCATGCGCTGTAGTCCCAGCT
ACTAGGGAGGCTGAGGCAAGAGAATCGCTTGAACCGGGAGGTGGAGGTTGCAGTGAGCCAATATTGTACC
ACTGCACTCCAGCCTGGGCGACAGAACATTTAATGCTGGTGGCTCACACCTGTAATCCTAGCACTTTGGG
AGGCCGAGGTGGGTGAATTGCTTTTGCTCAGGAGTTTGAGAGCAGTCTGGGCAACATGGCGAAACCCCAT
CTCTATAAAAAATACAAAAATTAGCCAGGTGTGGTGGTGCACGCCTGTAGTCCCAGCTACTTGAGAGGCT
GAGGTGAGAGGATGACTTAAGCCCAGGAGATCCAGGCTGCAGTGAGCTGACATAGCGCCACTGCACACTG
CATTCCAGCCTGGGCAACAGAGCAAGATCTGTCTTAAAAAAGAGTGAAGTAAAGTACTGACAG
TATAAACACAACCAACCCATGGGCATCTGTGCTGGGAATAAAAGACAGACATGTTTTCATTGCACTGAT
TTAGGATTCTGCTTGGAAAGGAAACTGTGATCTCTCTGCAGTTGCCTAAAATGCTTTACAGTTATGGG
AATGGAAGCTAAATTCTGTGATTGTGGGTAGAGGGAAGGAGGACGAGTGTCTTTCTGATTTCCTCT
TTTTCTTCTCTTCCAAGGGGAAATAAAAGGCTAGAGCAACAATTTAAAAAGAAAAGGCAAGGAGCTACT
GGGGGTAGAGTCGGGAGGGGAAAAAGGCCAAACCCACTAAATAATTTCACTTCAGTTACAGTAAATCTCAA
ATGATGATGCTACACTCCTGAGAAATGTCCATGGTGGAAATGCCTGGGCTTTGAATTTGAGCAGCGAAG
TACCAGGAGAGGGTGACATGATAACATTCAACAGGAAGAACACTGCTCTTGTCCGTTTGACGGTCCCTATT
CCTCCGGATCACTCAATCTTCAAAATCAAGCATATAGCTCCTTCACATGTCAATTTGTGAAGGGAAGAC
TCCTAGGAAATGTTTTCTAGGAAAGGGGAAAAAGCAGAAAGCAAGGTCTCCTGCTTACTACAGCATTC
GTGTTGCATAAGCAGTATTAATGTAGTGGAGTATTAATCACTTAGAACAGTTACAGTATTATTCCTATCT
GGGCTCTGCAGGGTCTTTCTTCACTTCTTTCTCGACATTTGGATTCTGTCCATTTACTCCTCCCTCTG
CACTTGGAAATAGAAGTGAATTTGTTGTGCCAATCTCTGCTTGTAGAAGCCATGTAATGTTTAGTAG
GGGAAAGCTTTGTACTGCTACATAGAAGGAGTTTTGGGATTATTTAAGACTTTACTTTGTTGATGGGA
TTCTTAGAATCTACTATTACTGGGTATACTAGACAAGTTTTGTAGATTTACAAAAGTGTGGATAACATGGG
TTGCACCTGATTTCTTTATCCAGCTCTTTGGTTCTAAATTTATTGCCAATTTTATTATCAAACTATTCT
TCAGCGGAGTAGTATTTCTGTGGACACAAGGAAACATCTGTGAGCTTAAACCTTAGAGGCAGATAGCCA
GTTAGAACATTTGGCATATGAAGCTTAGATAGCAGAAGAGAAAAATTAACCAAGGCAACCCCTCAAAATA
TTGAGAAGGCAACTAAGAAAAATTTCTTATCACTGACAGACTGCAGTATTGAGTTCGTGTTAATGAAGAA
ATGTCAGAATACATAATGAATCAATAAGGAGTGTCAATTTATGGCAAGTTTCAATGTTGGTGTCAATCTC
GACTGCCAGGATTTATGGTAGATTATATAATGGAATCCTGAGTTCTGAGAGATCAAAGGAAAATGCTGGC
TCTTTCTTCATCCATTCTCTTAGGTCAAGCCTATGCAGCAAGAAGCCAAGTTGAGAATTGAGCAATTATC
TGAAGTGGGCAGTGGAGACGGCCAAACCAGATAATATATAACCAGAAAGTCACCGTGGAGGGAAAATGTG
GACTGAAAATAGGATAAGGGGTGGAGGTAGAATGTCAAGCCATTTGGTCAGTGTCCACAGTCCAAATTTA
CTGAATAACAGCCAATTCCTTACTTCATGTGGTTATTTAGAGCGAGACTAGAGGACAAGTGAAAAA
AAAAAGAGTTCAATTCCTAAGGTTGTTGCATGTTTGTGCAAAATTTCTTCAAATCTCTGTTATTATCTGTT
ACATGTCTAATTTCTGAGTACTTCCAGAGATTGCATTTTATTACTTTAGATTAGTGGGTTGAAGTGGTGGA
GGAAGCCCATATAATCTGACTTACATGGAGAAAACAAGTCTTTTTTTATAGTTTAGTTGAGTGTATATT
TAATTAGCCTTTTTTTCCCTCCATAATGCATGCTTATGAATTTTCCACTTAAATTTCTGAGGCTCTGACC
TTTATCATTTCCCTCATGGAGCAATTTCTGTACCTCCTTAACCTTTAGTAGAACATAGCAATGAAATATACA
AGTCCCTTAGAATAGAATTTGTGTGAATTTGGTTTTCTAAAAACACAACCTACCAAGTCTGAGGACCAGT
GTGGTATTTTTTTCTTCTATTGTATGGAAACCATAAACTACTTACTTTGAGCAGATGTTTCCAGTCC
TAAATACAGCTATCAGTCCACTGGCCCTATAAATCTGTTGGAGTGCACCTGCTAATTTCTGAAGCCTCC
CTAATACAATGTTAACTTTCTTTTTTTTTTTTTTTTTTTTGGAGAAAAAATGTAAATTAGGTTCACTG
TTGCTTGGAAATTAGGAAAAAATAAAACACAGGCATACTAATATTTAGATGGAAAAACAAAGTTAAGAA
TTCAACAAGTTTTTTTCCCCACTCTATCATGTCTTGCACATTTAAAGCTGTTATACAACATTTTAAAAA
CAAACCAAAAAAACCAGGGCCTTTTTCCAACAGCTTAGGCTGATGACCCACAGTAAAAAAGTGCCCAT
GGGATATTCTTAAAGCACCCCAAGGGAGTCTATTGAAATAACTTAAAGTAAAAATTCAGAAGAATTTTAC
ATGTAATTAATAAATAAGAACGTTGTTTTATAAGCAATAGGGAAAAGCTGTATTAAAGTTGCATTGCTCAA
TTTTCTCACTTGCTCTGTGCAGTGACTGCTTTTTCAACCATGTAACAACGTCTGAATCTTCGTGGTAAAT
CATACCTATCACAGCCACAGCAGGTTTTGTTCTGCTGCTGCACATGTGATTTGAGATACTGTGGGCTGGG
AGTTTTTTTTTTTTTAAATTTCTAATGGCAAAATGGATCTATAGAAATGGAAGTCATCTGTAATCTCAGC
ACTTTGAGAGGCTGAGGTGGGTGGATCACCGGAGGTGAGGAATTCGAGACCAGCCAGCCAACATGGTGA
AACCATCTCTACTAAAAAGATAAAAAATTAGCTGGCGGGCGTGGTGGTGTGCGCCTGTAGTCCCAGCTA
CTTGGGAGGCTGAGGCAGAAGAAATGCTTGAACCCAGGAGGTGGAGGTTGCAGTGAGCCGAGACCGCACC
GTTGCACTCCAATCTGGGTGGCAAGAGCGACACTACATCTCAAAAAAAGAAAGAAAGAAAGAA
TGAAGTCATCCCGTGGGCTGAGTTGGTGTAGTGGATTATGGCCTGTGCGTGAATGAAGAAATACTTGC
CAATGGCATCAGTGGTAAGTAACTAGCTTAAAGCCCTACTCAGCTTTGTAAAATAATGTAATCAAGGAATTTGAT
CTGAACAGGTAAGCCAAACATTGATTCTTCAAGTGCCTATTGATAAGTGAGACTACTTTCTTTTTTAAACAG
CCTTATTTCACTTAAAGTGGGAGTCAAACTAGCTTTAATTAAGGAAATCTGTAGAAATCACCCACATCTC
CCTTTCTTCTCTGTTAAAAAACAAGGAAGAAAGAAACTAGGAAGGAGTAAGCACAAAGATCTCTTC
ACATTTCTCCGGGACTGCGGTACCAAATATCAGCACAGCACTTCTTGAAAAAGGATGTAGATTTTAACTCTG
AACTTTGAACCATCACTGAGGTATGTGTGAACATACTAGTTTCTCTCTTCTCTCTCTGACTTTGTCCGT
AAATTGATAAGATCTAATTTGGTCATCAGTTTGGAGAACGATTTTTCATTTAATTTCTTTCATTATCAAG
TGTGTATTGTGAGGGCTTAGCAGTACACCTACTATCTGATGGGCACTCTACATGCGTTGCTTAGGTTGA

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AATTAAGGATACAATCTGTGCACTACCACCATTTAAAAAATCCCCAAGTCTACTGTGTGGGTGAGGTTT
CTTTGCATAGTATCAGAGAGGTTAACCAATTTATTTACATACTCAATAGTCCACTCTAAGTAGGGAAAAT
CCAAGCTTTTTTTTTCTTAAGAAAGAGCTTTTCATTCTTTTTTCCCTCAGAGCTTTACCATAGTTTCCAG
CAAGTGAAAACATTTCTTGATTTGAATTTACAACTCCTTCTCCTCTTGCCAGTTGTATGGTGCTAATA
GGAAGCAAAATGTGAGTGTGCTTTTAATTTAACCTAAAATAGGGGAATATCTTCAGAATTTAGACTTTA
CATATTCAGTGACCTACCTAAAAATAGAGACATAGTTCTAACCTTCTCAATCATTAAGAAACATTTCTAT
TGAATTTAATTATTCAAAAACAACAGGTAGCAGTTTACAAAGGGAAAAGACAAGCCATGCCACTTGTATTT
GTGGTCACCAAGTAATTACATTATTTTTTATTTAAATTAAGATAAAAATAACTTACTGACTGTCAAGTCC
ATTTCTCATTTTCTCCATAGAACATTTTAAACTAGTTACAAACCTCTTGAAAAGTCATGCCTCTAGAA
AGTGCAAATTTGTCACCATTGCCTAGAGCCAACTTGAGAGGCTGTGTATCTATGCAGCATTTTGCAAATC
CAGTAGCAGGCATGTGATATAAAAGATTAAATGCACCCCTGATTTGTGAATACTATCCTAGCCTTCAAAA
TGTTCAAAAGCACAGGAAGTCTGCACCTTTTAAAAATATAACCTGCCCAAATTGCAAGGGAGGGGTGGGT
GTAGGACCTAGGTCTGTCTGCCAATCAGCTTGAGATGCCAGTGGACGAAACCTGACTTCACTAAAAACCA
GACTGGCAAATATTACTCAGCGTGGTAATTTCTTAATTGTAGAACTGGCCTGTTGGTGAAGTATTTTCAG
GAAAATTTTGTAGCTGGACCTTTTCTACCTACTGCATAAGAAATGAAGCTTCTAGGCAAAGACTTTACT
TAGTGACTAACCAAAAATGSTAATAAAGTCACCGCTTCCAGGCTTAGCTACTGTCCTCAAAACAGCTGC
AGGCTGGTCAGGCCAGTCTTCTGAGGCTGGAGGTGCATGTGGAACCCCAAGAGCCTTGTCTGCAAGGGC
ATGGCTGACTGCAGGCTGTTTAGAAGCACCCCGCCCCGTGAAACTCCTCTGGCTTAGGAATTTTAAACAG
TTCTAGTTCTAATCTCTCTGCTCAGAGTCTGAGCAGCTGTGAATGAGCTCTCCTGTGAATCACAGAAATG
TTAATGGGTGAGCTGCTCTAGCTTCTTACTTCCAAGTGAAGGCGCCTGTAGCTCTTTGCCAGCTTGATG
CAGTGAGTTTGATTCTCTTTTGGGCAGCAGGGAGAGATAATGAAGGAGGGGGAAAAAAGATTTTAATAT
AGAAACGAGTCTTCCATCTGGCTGAGGCTGAACAAAGTAGAAGAACCAGTGCAAGTCACTGGGGGTATGG
ATCTCATACCATTTTCAGCATATACCTCCCTTTCTCTCTTTTGTATTCTACACATGTCAGTCCCTGAGTA
GTCTTGCAATTGCTTTCCCACTTTGAAGTCTTAGATCCAAACTCTGATTCAGAAAGGTCTAAGGTGCT
GTTGCTGAGATTTTGAAGAGACCTGAGACAAACTGTTGGGATTCTAGACGCTATTGCGCATCTGCCTGG
GTAAGTGTGCTCACTTAGGTTGGGTCAACAGAAATATCTCCTCCATTTTGTGCTGCTTTCCAATTTATAA
ACAACACAGAACATCAGTGTTCTCCCATATCAAAATATATTTGGCTCTATTAATATTAATAATTTGATCT
TGAGTAGAAAGATTCTAAGGGCTAAAAAATAAAGATGTAAATGTATGTTGATAGGTTAGTGTAGAAGC
CACCCATGGGGTTGCCCCCACTCCCACTCTTTCATATTTTAAAGAAACAACACTCAAGTTACAAAGT
CGATTCTTTTTTGTGTTTATTTGAGACTGAGTCTCACTCTGTCACCAACCAGGCTGGAGTGCAGT
GGTGCGATCTTGGCTCACTGCAACCTCTGCCTCCCCGGTCAAGCGATTTTCTCCTGCCTCAGCCTCCCAA
GTAGCTGGGATTACAGGTGCCCGCCACCACCCAGCTAATTTTGTATTTTGTAGTAGATAGAGACAG
GGTTTCACTATGTTTCACCATGTTGACCAGGCTGGTCTTGAACCTCTGACCTCAGGTGATCCACCCGCCT
CAGCCTCCCAAAGTGTGGGATTACAGGCGTGAGCCAACGCCCCCTGGCCACAAAAGTCAATTCTTAACCTT
AAAACATAAAAGTTCCATTTCTTTTATGGTCTACTTAGTCATGTCTGGAGTCAGTGAGCTCAGTCAAGTA
GTTTGCAGAATGACAGTTGTGATACCTATTCAATTTACCCACCAGATTATTTCTGCTCTCCCATGGCACT
TTATAGAAAACAGTTTATTCGGTCATTACAACAGCTCTAGGAGGGGGTTTCATTAAACCCACTTTCTAGG
AAAGCGAACTAAGGCTTAGAAAAATCAAGTAATTTGCTAAAGACTACCCAGCTGGCAATGATATGACAGG
ACATGAACCTTAGGACAATACTCAAGGTCTTGGTCCCTGTAAATATGGGTTTCCAGGTTATGTATGCAGG
CAGAGGGCTTAGATCCTGAAGTTTCTTCAGAACTTCAGGATCTAAGCCCTCTATATAGGAGCAGTATA
AAAAGGAAGGATCTCTTCCCATAGGGAGCTTGTATCCATTGAATGAGGAACTCAGACTTCCACTGTGAA
ATGATATTTGTATCCCCATTGTGTGCGAGATATGGGGACTCTGATCATCATAGAGCACATTTTCTCTGC
CTATAAATGATACTTAATAGAGCTGACAGATTATATATATCTGGAACACTTTTACCTAGCAGAAAGACAA
CAGGCTAGGATTAGCTGACTAATAATTTTATTTATCAAGCTCAATTTCCATGCTGACTTCTCTTCTCTA
GTGAAAATGTGTATCAGATTTGGTCCCAACTGGAGAGGTGAAAGGATCCTTTGACCAGTATAATAGCC
ATGCCATCAGTTTGTCTTCCCTAATTAAGTTTATATGGGTAAATGATCTATATCATTATTTTGGGGGT
TCTAAACACATATGAACATAAGATGGAAGAGATGATGGAAGAGATGGAAGAGATGACTCAGATGTACA
AAGGCTTGCAGAGAGAAGGATAAGCCAAAAAATTGGTAAATCACACATGAATAATCAAGAACTGACTACA
ATATAATAATATGTGTCCATTTCCTAATGAATAAGCTGCCATTATGTCTCTTCAATTCTCTATTTAGGA
CAAATTACTTCTCTGCTGATTTCCATTCTTACAGGTACCTATCTGCTGTGATTTTCCCAGTTTGGACT
TTATCTTGTGCTTAACTTGTCTCTAAGTAAGCTGCAACCCAGTAAATATATTCAGTATTGTTTATT
GTAATTCCTGCCTTATGTGCAAGTGGCAAGAGGAAGGGACTGGTTTATTAATTTATCAGTCTGGGTGTG
TGCTAAGAGGATCCTTAGTACATGCTTTGATTATGGTAGATTGAGTCTAAAAGATTGAGCTGGTTTATTC
CATTTATTTTGGTCTGTCTACCTAACAAAGGTACACAGTGGATTATACTAGTTTCTATGTGTCTATTTG
TTGGCCTGACACATAATAGCAAATAAGAGGTACCAGAATTTTCTGTACAGTCTGAAGCTGTGTGTGTACA
ACAACCAGTGAAAAATCTTAGTTATTTGGACTTTTGGGTTCATGATGCCAGAGAAAGCCAGACACCAGC
AGCTGGAATCAGCTAAGACCTAAGACCCTGCATGCACATATAGATGTTTACATTTTCTTCTTATTGCGAC
ATTGAGCCATTGCTTTGGCGCCTATTTCAATAATATATTGCTGCTCATCAAAGTGGAATAATGTTTGT
TACTAGCTGAGTATTGAAAAGCTCTTCATAGTTTGTGATTTTACTCAGCTCCAACATGCAGGACCCAT
TTCTTCAACTGACTTTGGCAACAGGAGAGATTGACTAGTGGGCTTGAAAGTGATCCACTGCTGTCTGTG
TTAACTTTCTTCAATCTACTGGGTCTTGGGAAGAAGAGGTAGCGGGCATCCTTGTGCTTCAACCAGG
AAGCACAAGGCCATCCCAGGGCGGGGCAGGAGAGAGGTGGGAGGGAAGAAGCAGGCTCCACAGGGCCATT
GTTTACCTTGTGCGGGTCAGGTCTTCTCAGGCTAGGGTTCTTGGGATAAGAGCAAAGCTTATTGGTTT
TCCTTGTGTGCCACGAGAGCACACCAGATCACCCCTGCAGCCTTGTGCTTCCCACAGCCTGCCCTT
GCCTAGGGTTTTCAGCTGATATCCTTTCTACTCAGGAGGAGAAACCACAGAACACATGGAGGAAGTGTTC
CAGTGTTAAGACTTTAGACCAACTATAGAAATCTGTTCTACCTGGAAACCTGAAGAAATAAATCATGAC
TGCTACTCAGTAGAAGTAAAAAATAAAAAACAGCTTTACTGGTTTGAATCATAGGAAGGCTTTCTGTATA
GCCTCTCTGAGAGCTGCCTACTGGAAGGATTGTCTCTCAAAACGTGAGGATTGTGGTGTTCAGGGTTT
ATATGACACTGGCAGGATAGTTTGTAGAGGGCTGTGCTTCGACCTTATCCAAGGGATGTAAGCCGTGT
GTTTAGGTTAGTGAGCGTCTAGCACAAAGCTCTAATGTTGAAGGAGCATTGAGGCGAGGCTGTGCCTCTG
AACATGTAGAATTGACTAGAAATGCCAATGTTCAATTTCAAAATGAAATCATATCTTTCTTATGCTTCCA

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TTTAAAAATGATTATTACATTTTTGTCATATGGTTGAATGCATATTAATTTTAGCAAGTTTAGAAAAAGAGA
TAAGCATAAAGACATACATAAAAAATCACTTATTCTCATCAGCTATAGATAATCACTAACAATATTTTAGG
ACATTTTCTTTTCATCTTTTTCTTAGCAATATGTATGTGTGGGTATACATATTTAAGTGTGTATATAT
GTAAATTAAAAACATAAAATATTCCCACAATATAATTAATAAAAAATCTAAGATACAACACAATTTCCGT
TTGTAATATGTAGTGTATATATGTATATATACACATTATATGTATATATAAAATACATGCATAAAATAGA
TACACAGGTATATATTTTGCAAATTGAAATGATGTTGTATCTTGTAGATTTTATTTAACATTAGAATTTA
TTTACACTACTTAGGTGTTTTAACAAGGATTGTGGTCCACCATTTATTTCCCTTAAGAGTAATTCCAAAAA
GTGGAAATAGAATGTCAAGGGGCAAAGTTCTTTATAAAGTCCTTAAGGAGTATTGCCAGATATATTTTTT
TTTACTTCCTTTTTAAAACATGATTGTATTGTAGAAGTTCTCTTTAAAAATCCAAGCAAAAATTTTTCAA
AATCCCATCTAGAAATCAAATCATGATTTTATTTGGCTATGCCTCTTGTAGTCCTTGTCTATGAACTTAT
TCTATTATTAAATATAATAGGTAATTTCCACTAATTTGACAGATAGAATTTATTTTTTACATTTTCTCT
TGTTACAGTGCCATGCATATTTCTATTATGTTACAGAGATCTTGGGGGTCTTTTTTCCCTCCCTTTTTCT
TTCTCTTTTTCTTGTCTGTACCCCTTCACAGAAACCAACAATACAGGTTGATGTGTATCCTCTACTCTT
TTCTCCATGCTCACACAACCCAATATTTACACATGCCTGATTTTTTCCAGGGCAATGGTCTTCTTTATCA
TAAATTGTGGGATAAGGTTATATACATAATATATGTGTGTGTGATTACTCTGAATCTTGGTTTTGTCAC
TTTGCAATATGTCTTAAAGATTCTGATAAATCTTATAGATCTATCTCATTCTTTTCAGTAGTTGCATGCA
GTATAAATTTACTATACTTATTCAAGTAATCTGCTTTTCCAGCTGATACTCTGTTGTGAACAGTTTTCAAC
ATATAAAAAAGTGTCTGTCATTACAAATATTCTTAGATATATATTCTTAGTAATTGGGGGTTTTTATTTT
TGGTGTAAAGTCCCAGGAGTAGAATTGCTGGTTTAAAAGGTATGTGTATTTTTTACATTTCTATTGGTTTT
TCATATTATTTTCTAAAAATATTATAGCAAATCACAGTCCCACTAGTGATGTTGGAGAGTATCATTTTCC
TCACTAGTACTCTATTTCCCTGCTTTCTAATCTTTCCCTGATCTAATGAGTAAGCATTGTTAATTTTCTT
TTCATTTTCTTGACTTCTAATGAGCTTAAGCATCTTTTCACATTATTGTTGTTCCCTTGGATTTTCTTAT
CTGTCAATTACCAATGGATATCCTTGACCTATTTCTCCCTTATATGGTTGCTTTTTCTCTTATTAAAAAT
TGTAAGGTTCTTTGACTATTACAGATTTTAAAAACTGGCAGATAAAGTTGTATGATTATTGTGTATAA
TATGATATTTTGTAGATATACATATATCTTGATATATCAATATCGAGATATATATATCACACGTTGTGGAA
TGGCTAAATATAGCTAATTAACATGTGCGTTACCTCATGAAGTTATCATTTTTTGTGGTGAGAACACTTAA
AACCTCTCAGCATTTTTCAAGAATATAATATATTGTTATTAACTATAGTCACCATGTTGTACAGTGGATC
TCTTGCACTTACTTTTCCGATTTAACTGAAGTTTTGCATCCTTTGACCAATGTCTTTCCAACCCCTCACCT
CCCACCCCTCTGCCCCGACACTGCCCCAGCCCCGGTAACCACCATTCTACTCTCTATGTCTATGAGATCAA
CCTTTTTTAGACTCTACATATAAGTGAGATCTTTTGGTATTTGTCTTTCTGTGCCTGGCTTATTTCACTTA
ATATAATGTGCTCCAGGTTTATCCGTGTTGTTGCAAATGACAATATTTTTCTCTTTTTTTAAGGCTGAAT
GGTATTCCTGTGAACATATACCATATTTTCTTTATCCATTCTCTGTTGATGGATACTTAGATTGATT
CTACATCTTGGCTATTATGAATAATGCTGTAATAAATCATGGGAGTGCAGATATGGCTTTGACATACTGAA
TACATTCGCTTTGGGCATATACCCAGTAGTGGGACTGCTGAGTCATTCCGTAATTGTATGATTACTGTTT
TCCATAGTGGCTGTACTAACATACCTTCCCCTAACAGTGTGCAAGGTTCTCTTTACTCCGCATCCTTG
CCAACACTTTTAATCTTTTGTCTTTTTCATAATACCCATTCTAACAGGTGTGAGATGATATCTCTTTGTG
GTTTTAATTTCCATTTTCTGATGATTATAGTGATGCTGAGCATTTTTTCTATAGATTTTTTTTTTTTGGT
CAGTGGATTGCTAAATCTTACCCGTCAATAATTTCTCCTTTGATTTTACTTTTATAATTTTCTGCTACA
AAATTAATAAATAATTGTATGAAATAAAATTTTTCTTCTTATACGTATTCTGAATTTCTATCTTACTTC
AAAGAGTCTTCCCACCTCCTATTTTCTAAATTTTCTTCTAAATTTCTATGTTTTATTTTATTATTTT
TAATATTTAGTATTTTTTACATCTGGAATTTTTTATATAAAAGTGAAGGCTCAACTGCATCTCTTTTT
ATATAAAGAACGAATTGTTTAAACATCACATGTTAAATAATCTTTCTCCAATAAATTAAATTATATTAG
CATCAATTTAAAGATTTTTTTTCTCTAAACCACTAATCTATTTATTTGTTGCCAGGCCTGAGACGTATTG
CTTTGATTATAATAGCTGTATAGTCTCTTTTAAACATTTGGCAAGTTGATGCTCCCTACTCATTAATATT
ATTTATAATGTTAGCCTGGTTTTCTTTTTTTTTTTCAGTCCAAATAGGATTTAGTCAGAAGAAAGATAC
GTGGATTACATTTTTTAAATACTGATCAAAATGAAGATGCTCCAACCGTATAAATGGCAGATGAAATAGA
CTTTAAAGTAAAAATATTTATCACACAATATATCAGAAAAATATAACAAACCCGAACCAACAAACATCA
GCAACGTAGCTCCAAAATATTAGCTTGAAACATGAAATTGCCAATAGTTGACCACTTTTTTGACCTACAAA
AGCAACAATTTATATAAAGAAAAGGTCAATAAAATTATGGTAAATTGAATTTTTTTTTTATTATTACACTT
TAAGTTCTGTGATACATGTGCAGAACGTGCAGGTTTGTACACAGGTATACACATGCCATGGTGGTGTGC
TGCACCCATCAACCCGTCTATCTACATTAAGTATTTCTCCTATTGCTATCCCTCCCTAGCCCCCACCCT
CTGACAGGCCCCAGTGTGTGATGTTCCCTCCCTGTGTCTTAGGTTCCCACTTATGAGTGTGGCGTTTG
GTTTGATGTTCTGTGTTAGTTTGTCTGAGAATGATGATTGCCAGCTTCATCCATGTCCCTACAAAGGACA
TGAACCTCATCCTTTTTAATGGCTGCATAGTATCCATGGTGTATATGTGCCACATTTTCTTAATCCAGTC
TATCATTGATGGGCATTTGGGTTGGTTCCAAGTCTTTGCTATTGTGAATAATGCTGCAATAAACATACAT
GTGCATGTGTCTTTATAGTAGAATGACTTATAATCCTTTGGGTATATACCCAGTAATGGGATTGCTGGGT
CAAACGGTATTCTAGTTCTAGATCCTTGAGAAATTGCCACACTGTCTTCCACAATGGTTGAACATAATTT
ACACTCCCACCAACAGTGTAAAGCATTTCTATTTCTCCACATCCTCCCCAGCATCTGTTGTTTCTGAC
TTTTTTTTTTTTTTGAGATGGAGTCTCACTCTGTTGCCAGGCTGGAGTGCAGTGGTGAATCTTGGCT
CACTGCAAGCTCCACCTCCCGGTTTCATGCCATTCTCCTGCTTCAGCCTCCCAAGTAGCTGGGACTACAG
GCGCCCGCCATCATGCCAGCTAATTTTTTGTATTTTATAGTAGAGACGGGGTTTCACTGTGTTAGCCAGG
ATGGTCTCGATCTTCTGACCTCGTGATCCACCTGCCTTGGCCTCCCAAGTGCTAGGATTACAGGCGTGA
GCCACCGCACCTGGCCTGTTTCCAGACTTTTTAATGATCACCATTCTAACTGGTGTGAGATGGTATCTCA
TTGTGGTTTTGATTGCATTTCTCTAATGACCAGTGATGATGAGCTTTTTTTTCATATGTTTGTGGCCGC
ATAAATGACTTCCCTTGAGAAGTGTCTGTTTCATATCCTTCAACCACTTTTTGATGGGGTTGTTTGTTC
TTGTATATTTGTTTAAAGTTCTTGTAGATATTAGCCCTTTGTGAGATGGAGAGATTACGAAATTTTTCCCC
CATTCTGTAGGTTGCCTGTTTCATGCTGATGATAGTTTCTTTTGTCTATGCAGAAGCTGTTTAGTTTAATTA
GATCCCATTCGTCAATTTTGCCTTTTGTGGCATTGCTTTTGGTGTTTTAGTCATGAAGTCTTTGTCCAT
GCCTGTGTCCTAAATGGTATTGCGTTGGTTTTCTTCTAGGGTTTTTATGTTTTCGGGTCTTACATTTAAG
TTTTTAATCTTGAGTTAATTTTTGTATAAGGTGTAAGGAAGGGATCCAGTTTCAGTTTTCTGCATATGGC
TCGCCAGTTTTCCCATCACCATTATTAAATAGGAATCCTTTCCCATGCTTGTTTTTGTGAGGTTTG

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CCAAAGATCAGATGGTTGTAGATGTGTGGCGTTATTTCTGAGGCCTCTGTTCTGTTCCACTGGTTTATAT
ATCTGTTTTGGTACCAGTACCATGCTGTTTTGGTTACCGTAGCCTTGTAGTATAGTTTGAAGTTAGGTAG
CATGATCCCTCCAGCTTTCTTTTAGCATAGGATTTCTTGGCTATACGGGCTTTTTTTTTGGTTCCATATG
AAATTTAAAGTAGTTTTTCTAATTCTATGAAGAAAGTCAATGGTAGCCTGATGGGGATAGCATTGAATC
TATTAATTACTTTTGGCAGTGTGGCCATTTTCATGATATTGATTCTTCCCTATCCAAGAGCATCGAATGTT
TTTCCATTTCTTTGTGTCCTCTCTTTTTTCCCTTGAGCAGTGGTTTGTAGTTCTCCTTGAAGAGGTCCTTC
ACTTCCCTTGTAAGTTGTCTTCCCTACATGTTTTATTCTCTTTGTAGCAATTGTGAATGGAAGTGCACCTCA
TGATTTGGCTCTCTGTTTGTATTACTGTATAGGAATTCTTGTGATTTTTGCACATTGATTTTGTATCCT
GAGACTTTGCTGAAGTTGCTTTTTCAGATTAAGGAGATTTTGGGTTGAGATGATGGGGTTTTCTAAATATA
CAATCATGTCTATCTGCAAACAGAGACAATTTAACTTCCCTCTCTTCCCTATTGAATACCCTCAATTTCTTT
CTTTTGCCTGATTGCCCTGGCCAGAACTTCCAATACTATGTTGAATAGGAGTGGTGAAAGAGGATATCCT
TGTCTGGTGCTGGTTTTCAAAGAGAATTCTTCCAGCTTTTGGCCATTGAGTATAGTATTAGCTGTGGGCT
TGTCATGAATATCTCTTATTATTTTGAAGGTATGTTCCATCAATGCCTACTTTGTTGAGAGTTTTTAGCAC
GAAGGGGTGTTGAATTTTTATTGAAGGCCTTTTTTTCATCTATTGAGATAATCATGTGGTTTTTGTCAATTG
GTTCTGTTTATGTGATGGATTACATTTACTGATTTGTGTATGTTGAACCAGCCTTGCATCCCAGGGATGA
AGCTGACTTGATTGTGGTGGACAAGCTTTTTGATGTGCTGCTGGGTTGAGTTGCCAGTATTTTATCGAG
GATTTTTGCATCAATGTTTCATCAGAGATATTGGCCTGAAATTTCTTTTTTTGTTGTGTCTCTGCCAAGT
TTTGGTATCAGGATGATGCTGGCCTCATAAAATGAGTTAGGGAGGAGTCCCTCTTTTTCTATTGTTTGA
ATAATTTCAGAAGGAATGGTACCAGCTCCTCTTTGTACCTCTGGTAGAATTCGGATGTGAATCCATCTTG
TCCTGGGCTTTTTTGGTTGGTAGGCTATTAATTCCTGCCTCAATTTCAGAACTTGTTATTGGTCTGTTT
AGGGATTTGACTTCTTCCCTGGTTTAGTCTTGGGAGGGCGTATGTGTCCAGGAATTTATCCATTTCTTCTG
GATTTTCTAGTTTATTTGCGCAGAGGTGTTTATAGTATTCTCTGATGGTAGTTTGTATTTCTGTGGGATT
GCTGGTGATATTCCCTTTATCATATTTTAGTGTGCTATTTGATTTTTCTCTTTTCTTCTTTATTAGTCT
GGCTAGCAGTCTATCTATTTTGTAACTTTTTCAAAAAACCAGCTCCTGTGTTCAATTGATTTTTTTTTTGA
AGTTTATTTTGTGTCTCTGTCTCCTTCAGTTCTGCTCTGATCTTAGTTATTTCTTGTCTTCTGCTAGCTT
TTGAATGTGTTTGTCTCTTGTCTCTAGTTCTTTTAAATGTGATGTTAGGGTGTGAGTTTGAAGATCTTTC
CTGCTTTCTCTTGTGGGCATTTAGTGCTATAAAATTTCCCTCTAAACACTGCTTTAGCTGTGTCCCAGAGA
TTCTGGTATGTTCTGTCTTTGTTCTCATTGGTTTTCAAAGAATTTATTTATTTCTGCCTTAATTCTGTCT
TTACACAGTAGTCATTGAGGAGCAGGTTATTCACTTTCCATGTAGTTGTGAGTTTGTGAGTGGTTTCTT
AATCCTGAGTTCTAATTTGATTGCAGTGTGGTCTGAGAGACTGTTAGGATTTCCATTTCTTTTGCATTTGC
TGAGGAGTGTTTTACTTCTAATTTATGTGGTCAATTTTGAATAAGTGTGATGTGGTGCTAAGAAGAATGT
ATGTTCTCTTGGTTTGGGGTGGAGACTTCTATAGATGTCTATTAGGTCTGCTTGGTCCAGAGGTGAGTTC
AAGTCTGAATATCCTTGTTAATTTTCTGTCTCATTGATCTGTTTAAATATTGACAGTGGGGTGTAAAGT
CTCCCGCTATTATTGTGTGAGAATCTAAGTCTCTTGTAGGTCTCTAAGAACTTGCTTTATGAATCTGGG
TGCTGCTGTATTGGGTGCATATATATTTAGGATAGTTAGCTCTTCTCGTTGCATTGATACCTTTACCATT
ATGTAATGCCCTTCTTTGTCTTTTTTGTCTTTTGTGTTTAAAGTCTGTTTATCAGAGACTAGGACTG
CAACCCCTGCTTTTTTTTTGTCTCTCATTGCTTGGTAAATCTTCCGCCATTCTTTATTTTGAAGCCTAT
GTGTATCTTCTGCATGTGATATGGGTCTCCTGAATACAGCACACCAATGGGTCTTGACTCTTTATCCAGT
TTGCCAGTCTGTGTCTTTTAACTGGGGCATTAACTGTTTACATTTAAGATTAATATTTTATGTGTGA
ATTTGATCCTGTCTATTATGATGCTAGCTGGTTATTTTGGCCATTAGTTGATGCAGTTTCTCGTAGTGTTG
ATGGTCTTTTACAATTTGGTATGTTTTTGCAGTGGTTGGTACCAGTTTTACCTTTCCATATTTAGTGTTC
TTTTAGGAGCTCTTGTAAGGCAGGCCTGGTGGTGAGAAATCTCTCAGCATTGCTTGTCTGTAAAGGAT
CTTATTTCTCTTTCACTTATGAAGCTTAGTTTGGCTGGATATGAAATTTCTAGGTTAAAAATTTCTTTCTT
TAAGAATGTTGAATATTGGCCCCACTCTCTTCTGGCTTGCAAGGTTTCTGCAGAGTATCCACTGTTAG
TCTGATGGGCTTCCCTTTGTGGGTAAACAGACCTTTCTCTCTGGCTGCACCTAACATTTTTTCCCTTCATT
TCAACCTTGGTGAATCTGACAATTATGTGTCTTGGGGTGTCTTCTCTCGAGAGTATCTTTGTGATGTTCT
CTGTATTTCCCTGAATTTGAATGTTGGCCTGTCTTGTCTAGGTTGGGGAAGTTCTCCTGGATAATATCCTGA
AAAGTGTTTTCCAACCTTGGTTCATTCTTTCTGTCACTTTGAGGTACATCATCAAATATAGGTTTGGTCT
TTTACATAGTCCCATATTTCTTGGAGGCTTTGTTTCACTTTCTTTCTCTCTAATCTTGTCT
TCATGCTTTATTTCAAGTTGATCTTCAATCTCTGATATCCTTTCTTTTGGCTTGATTGATTGAGCTATTGA
TACTTGTGTATGCTTCATAAAGTTCTTGTGTGTGTTTCTCAGCTCCATCAGGTCAATTTATGTTCTGCTC
TAACTGGTTATTGTAGTTAGCAATTCCTCTATCCTTTTTTCAAGGTTCTTAGCTTCCCTTGCCCTGGGTT
AGAACATGCTTCTTCAGCTCAGAGGAGTTTGTATTACTCACCTTCTGAAGCCGGCTTCTGTCAATTCAT
CAAACATCTCTCCATCCAATTTGTTCCCTTGTCTGGCAAGGAGTTGTGATCCTTTGGAGGAGAAGAGGT
GTTTTGGTTTTTGAATTTGTGAGCCTTTTTGTACTGGTTTATTCTCATCTTCATGGATTTATCTACCTTT
GGTCTTTGATGTTGGTGACCTTTGGATGGGGTTTCTGTGTGGATGTCCTTTTTTGTGATATTAATGCTAT
TCCTTTCTGTTTGTAGTTTTCCTTCTAACAGTCAGGCCCCCTCTGCTGCAGGTCTGCTGGAGTTTGTCTGG
AGGTCTACTCCAAACCCTGTTTGTCTGGGTATGGAGGCTGCAAAACAGCAAAGATTGCTGCCTGTTCTCT
CCTCTGGAAGCTTTGTCCCAGAGGGGCACCCACCAGATGCCAGCCAGAGCTCTCCTGTATGAGGTGTCTG
TCAACCCCTGCTGGGAGGTGTCTCCAGTCAGGAGGCACAGGAGTCTGGGACCCACTTGAGCAGGTAGTC
TGTCCCTTAGCAGAGCTCAAATATTGTGCTGGGGATCCGTTTCTCTCTTTCAGAGCCAGCAGGCAGGAAT
GTTTAAATCTGCTGAAGCTGTGCTCACAGCCGCCGCTTCCCCAGGTGCTCTGTCCCAGGGAGATGGGAG
TTTTATCTATAAGCCCCTGACTGGGACTGCTGCCTTTCTTTTCACTGATGCCCTTCCCAGAGAGCAGGAAT
CTAGAGAGACAGTCTGGCTACAGCAGCTTTGCTGAGCTGCGATGTGCTTACCCAGTTTGAATCTCCTGG
TGGCTTTGTTTACACTGTGACAGGAAAACTGCCTACTCAAGCCTCAGTAATGGCGGATGCCCCCTCCCCC
ACCAAGCTTGAGCATCCCAGGTCAAGTTCTGACTGCTGTGCTGGCAGCGAGAATTTCAAGCTCATGGATC
TTAGCTTGCTGGGCTCTGTGGGGGTGGGATCCACTGAGCTAGAACATTGGCTCCCTGGCTTCAGCCCCCT
TTTCTGGGGAGTGAATGGTTCTGTCTCGCTGGCATTCAGGAGCCACTAGGGTATGAAAAACAAAACTC
CTGTAGCTAGTTGGTGTCTGACCAATGGCTGCCAGTTTGTGCTTGAAACCCAGGGCCCTGGAGGCAT
AGGCACCCAAGGGAGTCTCCTGGTCTGCACCAAGGGAATCTCCTGGTCTGTGTGTTGCAAAGACCATGG
GAAAAGTGTAGTATCTGGGCAGGAGTGCACCGTTCTTAGGGCACAGTCCCTCAGGGCTTCCCTTGGCTA

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GGGGAGGGAGTTCCCTGACCCCTTGGGATTCCCAGGTGAGGCGATGCCCCACCCTGCTTTGGCTCACCCCT
CTGTGGGCTGCACCCACTGTCTAACCAGTCCCAATGAGATGAGCTGGGTACCTCAGTTGGAAATGCAGAA
ATCACCTGTCTTCTGCGTTAATCTCACTGGGAGCTGCAGACTGGAGCTGTTCTTATTTGGCCATCTTGCC
CCTTGGTCTGGTTTTCAACCTTCAGTCTTCCATATTTATTTTGAATGAATTTCTGCAGCTTTATTAAAA
AAGAATAGAAAACAAGTAAGAGCAAAGCATAGTTGGTTTTATGGTTGTAATAAACTTATATGTATGTCCTAA
TGATTTGACAGCTTTGTGATAGTATCTTGTAAATCCAAGTACATGATATATTTCTACATTATTTAGATCTT
GTGTTAGGTTTTTCCATAAGATTAATTTTCTCATATTGGCTTTCTTGCTATGTTTCTTTTTTAGCATAAA
GCTAATCCAGGAAAAGGAATAAACTGGAAGGAAAAATGTCTTAAACCATTAATATTGGCTGACCCCGG
TGGTAGGGTTATGAATGAAACATTTTTGCTTCTTCCACTTTTTTATATTTTCCAAATTGTCCATATTAAT
CATGTATGATTTTTATAATAATAAATTAATGAAATTTAAGAATTAGATAATTGATTGAATTGGATAATTG
AATTAATAAAAATTTAAGAATGAGAATAGGAATAATTGTGCTTTGAAAAGTCATATACACAAGAGTTTTAG
ATGGAATTCAATACTAAATTTATATGCTATACTAAATCAGTAATTCTCAAGGAGCAAAGGTGCTGGGGAG
TGTGGAGGAGCTCTTGTGGTGTGCACATACAATTTAAGACAACATTTTCTTATTCCTCACCATTTT
AACCATATCACCTAACCAGCCTCTGGTAGCACTCAATAGACATCTGATGAATGAATGAATAAGTGAATGA
AAACATTGTGACAAAATGGTATAACATTTTGTATTTGAAAAATATATGAAAATCTATTCTTTTCAAATAT
AAAATGGGAAAATAAAATTCATAAAAAATATCTTGGTTGGTGAGAATACACAAAAGATATACCTTCTTGT
CTATGAATTAGTAATAAGAAATTGTCTTGAGGAAGTCAACTACATCTGGAAGGTTCTCTCTGGACAAGGA
GCATAAGTGAAAAACAGTGCATAAATTATAACCAAGAGTTGCAACTTACCATTTTAAATGCTTCAGCACA
GGCACAGAGACTAACATTTACTAAGCAAACAAGAGTCTTGGCAAGTTAATTAAATAATGAATTATTTTT
GGTGACCAAGGAGTTGGGCTTCTCATTTTTAAACCATGCATGAGATTTTTCCCTTTCTACCCATTACTAA
AATATCGTATTAGTGTGAAAAATTATACCAGGACTGGGAGAAAAAGAAATCACATCTGTCCTTGACAATG
GGCTGAATGAAGAGGTGAAGGAGTGGTTTTACTATCTAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT
AAATCCTTGTGTTGTGCTGACAATTAGTGATGTCTGTTTAAATCATGCAGTTTTATTAGGCCTTAAAAAT
ATCTTTTAGTTAGTTTCAATTTTCATCAAGGGAAAAAGGAGAGCAGAGTAGAGTGAAGTCTGCTCAGAGTC
CGGTTGGAAGCCTTCAACTTTGTTCTCCCTGTTTTCAGATGAGTGTCTATTTGTGGCTCTACCTTTTCTC
TTTCTTCTCTTACCATGACACTCCCTCTTCTCTCTTATCTTAGCTGTTCTTTTCTTCTTCCGCATATTA
GGCAGTGGGAGAAACACCCATAATCAGTTGGAGGTGAGGAAAGAAGAAAAGCACCCCTATCTTGGTAGTT
CCTCATTTCTCCCTTCGTCACGTCCATGTCATCAGGCTCTGCCTTCATCTGCGATCTGGATACAATCCAA
TTTATAGCATCCATTCAACCAAAAAATATTGAGCTCTTACTATGTCAAAGTAGTGTTCTGGATGCTCGGC
TCCATCAGTAACAACCTAGACTAACATCTTGCCGTTGTTTACATCTCGTGGTGTAGAGTTTACACCTTG
TGGTCTAGAATTTACATCTTGTGGTGGAGGCAGGCAGATGATTAACAATAAACTTAAGTAGGTCTAGATG
TCAAAAGGTGGTAAATGCTACAGGAAAGAGCAAAGGTGAGCCAGGTAAAGCAGATTGGCTGTGTGGGTG
TGGAGGAAGGGTGCAAGAGTACTGTCAAGATAAGCCTTCTGAGAACATCTGAACCAGGACATGAAGGAC
ATGAGGAAGTGAGACAGTGCCTATCCAGGGAAGGAATTTCCAGGCAGAAGAAAGAGCCAGTGTTACACCT
TAAGGTGGGAGCATTTCTGCGAGACTGGAGAATCACTGGAGTCCATTGTACTTGGAGCCCAGCAAGGGAG
AAAAGATTGGAGGACTCAGGAGGTGCTGGGGCAGGTGAACTGCTTTTTGATTGGGGAGTTCAGAGGGTAA
TGCTTTGGATAAATGTAAGTGAAGTCTTCTCAGAAGTGTCTTCTACTATCTCTACAATTCATTTTCAT
GTGAAACTTAATTGGCGAGCAGATTAATATGGTGATCTTCCCTTAGATCACTAGGAAAATCTTGTTTTA
TGAATTTTTCTTCCCTTTTCATTCAGTACAGAGAAAAGAGTTGTAAAGGAGCCGCAGAAAATTATAGTA
GGTTTCTCCCTACTACTGAGCTACTGAGACTGGAAGATGCTCACGTTAGCAACTGAGTATATTTATGTAT
TTCCCTTTAATGTTTGAAGGGTCAGGAATATTTGACTTAGGATACTAGTCTGTTTAGAAACATGATTCAA
CTAGCTACATGACTAACTAGCAGCTGTCAGAGAGAATGCAAGGTCAAACCTTAGTAGTTGATAATAATA
AAGAAAGGGCAGAGTGTTATGAAATGTTATGATCTGGGTAAATCCATTGGCTCACTTTTTTTTGTGAGCCT
AAGGTTACAAGATGATAAATTAAGTTGCTAATATTCTATATCTACCATTTACTTTTCTTTTATCATGTGT
CTGGCAATATGCTGAGTGTTCTACCTCTAGCATTTTATTCAAACCTGTGCAATCTGCCTGCTGAAACAAGT
ATCATTAACCTTCATTTCCCTAAGGTGAGAAAATTGAGGCCAGAGAGGTAAATAAGTTTAGGATCATATG
CATAGCTGGTAAGTACTATACTTTAATATCCCTTTGCCTTCATGCTTTGCTCTCACTCCATGTTTAAATG
AGCAGAGAGACTTATCTTTAAACAGATATATAGCAAGTAGTATTTTCCAAATGAATTCACACAAGATGCTC
CATTGCAAAAGTTCAAATAAGTTTAGAAAAATGCTGCAAACTTTGTGCTTCTTAAGAGATTTACAGTGCA
GATTAGCACATTAAAGCCTTTGGGAAATTTGTATTAGAAAAACCTTTATTAACCTATTTTACCCCAATTTT
TCCAAGCTTTTTGATCACGAACTCTTTAAAAACAACAAGTATAATTGCTTTTATAGTATTCTTTGGGA
TACACTTGGAGAAGTGTTACATGAAAAGATATGATTGGATAAATTTAAATATAGGAAGAATTATTTAATC
ATTTTTTGGAAATAAAACACCAATTTTAGGTTGTCTAACATACATTTGAGCCAAGACATGAAGGACATGAG
GACATAATTTACTTTTGTCTTGTAAAGGACATAATGCATTTTAGTGGTTTGCATTGTTTATTTTCTTTT
GAATTCATGTTACTTTATAAAGGTAATTTATTTAATCAAACCATTTGTTAAGTGTGAGACACTATGGTAG
GTGCTGGTAATATAAAGAGAATATGTAAACATCAACACAACATATCTCCTAGTATGGGCTTACAGTACAG
TGAGAGACACAAACAAATAATTTGTAGGATTGAAATAAGTCTTACATTTGCCACATCAATAAAGCACTAT
GGAAACAAAGGCACAAGAATTAACCTTTGTCCAATGAAGTCTTTTCAAGGAGGAGGTGATATTGGAGCTGAA
TTTTAAAGGATTATAGATGTTTATCTGAAGGACTAATGCAACATGTTGGAGGTGAGTCTTCAGGAAAGA
GGCAACAAGAACCATTGGGTAACAAGATAGGACTTGGCAAGTTAGGGGAGTCGTAAGTGGTTTATTACG
GCTAGAATCCAGGGCTCTCTGGAGAGATTGGGAGTACACAGATCACTCAAGGGTTTGGTATGAACTGTCA
GGCTACTAAGACAGAAATAACAAAAATCAGATGTGGGTTTAGAAAAGAGCATTTTGGCTGTAATACAGAAC
ATGATGGATAATTGATGGAGCGAGATTCTTGGGGAGATAGAAGAGGATAGGGCCATGTAAGTACATCTGC
TGGTATTTTAAATTAGAAAAAGAAATTTTTGGTAGCAAAATCAGAACAGACCCACCAACTCTTTGCAAA
TCATGGGACTAGAATGTTTGGAAAGGAAGATGCTAACGATTTTCATTCATTTGTTTATCATCTATGTTGA
GTGTCTTCTTGGGCCTAGGCAGCATGCCCCAAAGCTGGGAGAATAAGATACTGTATGAGATGCTAGAAAGA
TCCCCACCTCTCCTTTCCAGAAATTCAGTATATCAGACTAATTGGTTTACAGTTGTGACCATGGGCTTTT
GGCATAGCTGTTCAACAAGATTTCAATCTTTTTCAAAGCAATTCATTCATCCACCAATATTTGTTAAA
CAAATGTACGTTGCATTGTAGTGGGTCTCAGGGAGCTGGATGTACATGCCAAATATGTTTCATTTTATT
TGAAGCAAGTCCACAGACAAGTAACTAGTCAAGTGATACCAGGCAAAGTGATTGCTTTCCAACAGATG
GTGACAGATTAATTTCTTAAGAGACTGATCTGCCCCAGAGGCACTGGGAAAGTCTTGTTAGGGAGGTAGA

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TTATAGTCAGGACCTTGGAAAATTGTTGGGAATAATTGAGGTCAGGAAGGGTATACTTAGGTGGATGGGG
ACAGCCCCTGAGCGAGGGATCAGTCCTTTTGGAGTGAGCACGGAATATTCAGGTGCCTGGGAGGAGTGAA
GGCTTGTGCTTCAGCACTGATTGTGTGCACCGATGGTGGAACATACTGCCTGCTCAGAAGCTTTGGCTT
CTCTCTGTAGGTGAGAGACAGCCATTAGAAGTCCTTGAACAGGGAAGAAACACGGTGAAAGCAAGGATTT
CATTGAGAAGTCCCTCATGGAAGAAGAAGATTACATTGGAAGAGCCTGGCTTAGGGAGGGAGCAGTGAC
AATCAGAGAAAAAGGCAGATAGGGGCAAAGATACTGGAAGAAGAGGAAAAACTGTCCAAAGCTTTGTCCT
TGTGTGGGAAAAGCTGGTGCTGTTGGCGTGAAAGAGGAAGCAAGAACATGTGCACTGACACGGCTGAGAGT
CTCCAAAACCATTTGTCTTTTCCTTAAAACAGTAATGATCACAAGCAGCTTACAACCTTTGCATATAGCCACT
GGGGCAAAAATCCTATTAAAAGCTAATTCATTATCTGAGCCAGTGCATGATAATGCGATGTAAAGGCGTGT
TGGGAGGCAGATGATCAGAACTTTTAAGCAAATAAATTTTATAACATTTATTAGAAGCCTGTCTCTATT
TCCAGAAAACGCCATATAAATGTGGCTGTAATGTAGGCTACAGGTCATCACACTGAAGTAGAAGCAATGTA
CAATACCTGAAAGGTTAGAGAAGTTCAGGGTCTGGGCTTATAAAAACTTCATTATTCATTTGAAAGATA
TTGTTTTGTATCCCCCAATTGTGGTTTTCAATGTATATAAAAGCAGGATATCATACTTTTTTGATCTATGG
ATTTGGAAGGGGATAATGGTGTGGTGGGCACTGAGCATATGGAATTATTTAATTAGAGAGATGCCCTTTA
GATTACTATAAAATATAACCAGAATCTCCTGTTTAGACTTCTAAAATCTACTTCTTTGAAAACACTACTA
AAATGACCACAAAAGACCTGTCTCACAAGTGGGAGCTATTAATCAATAGTGTGTACACATGGACATAGAG
AGCAGAATAATAAACACTGGAGACTCTGAGGGGTGGGAGGGGAAGAGGGAGGTGAGGGATGAGAAATTAC
TTGATGGGTACAATCTACACTATTCTGGTGATTGATTTCTCTCTGTTTCTCTCAGAACTGAGAGGAA
ATTTAGTTTTCTCAGTCACCACTCCTCCAACTCCTGCGTGGGTGATACAAGACTTGCTGTCATCTTGAG
GCAGAAGGGGTTAGGGGATTTCCCATTTGAACCTGATAGCCTTCATTTTCATTTCTGTCTTCTCAGGGAAA
CATTTACCCCTCTTTACTAAATGGAAGAAGGTTTGTAAGTACTAGGAGGGTATCTATGGATCTGATTGCTCC
TTCACCACTCTGCTATATATCCATGTAACAAAAACAGCGCTTGTGGCCGGATACAGTGGCTCACACCTGTA
ATCCCAGCACTTTGGGAGGCCGAGGTGGTGGGATCACCTGAGGTGAGGAGTTCGAGACCAGTCTGGCCAA
TACGGTGAAACCTGTCTCTACTAAAAATACAAAAATTAGCTGGGCGTGGTGGAGCATTCTGTAATCCT
TAGCTACTCGGGAGGCTGAGGCAGGAGAATCGCTTGAACCCGGGAGGCCGAGGTTGCAGTGAGCCGAGAT
CATGCCACTGCACTCCAGCCTGGGTGACAGAGCAAGACTCCATCGTGGGAAAAACAAACAAACAAAGAAC
AGTGCTGGTACCCCTAAATCTATAAAATTTTCTAAAAAATAAAATGACAATAAAGGAATGAAAAAGGCA
TAGGTACAAGCAGATGGGATAGGACACTAAAGCAAGCTGGAGTAATACTGGAATTCTAGAAGGTAGAAGG
CTTAGCAGAGCAGTTCAGGTGGAACCCACGCTGTGGGGGCAGGGGCATGAGCAGTGAGCCCATCTAACT
ACGGGACCCAGATAGGCTTGGGATCTAGAAGCGACAGATGCCTCTAAAGGCTGGGGGTAGGCTGGGACT
GAAAGCAGAATTGGTGTAAGTCTTTAAAGGAGCAATTAGATCCACAAATACCTTCCTAGTTTTCTAATT
ATTCTACCGCTTAGGAGAGAGGGGTAAATGACTCCCTGAAAACAGAGAAATGAAGTGAAGGCTATCATGT
TAAATGGGGACAACACCTAGCCCTCCTTCCCTCAAGACTGACAGGAAAGCTCCTACAACCCACGAAGGAG
TTTGGAGGGGTGTTGTCTGAGGAACTAATAAGTCCAAGAGAAAGAACCTTCAGAAACGGACATTTAAAG
GATTAGGTCCCCACCCGATTACCCCTAGAGATACACATACAGAAATGTGATTGGACAGTCAAGGATCACCG
TATGATGCTTCTAACCTGAACAATAGACACCTAGTCACACACCCAAACAATCACACACACACATACACAC
ACACACACACTTACTTCACTTCTGCTGGAGGAATTTACAAGATGAAGAACATCTTGATCTCTTTTGGGC
TACTGTTTTGTGAAAGGAATGGTTGCATGTGCTCTTGGCTAAGCCAACTCCATCCTGAAGACAGATTTTTG
TGAGGTGGGGGAAATTCGCCCAGCGTTAATAGTGTAGTGGTTGTCCTGGGTCCATCCTGGTCTGTATTC
CTGCTTTTTTCATTTTCAGATTTAAATCCAGAGTTATTACAGATGGTAACATCTGATGCCAATTTATGGAT
CTTTTTTCATAATTCACCTGCTAGGAATCTCAGGTAACCTATAAAATATGCTTTTATTGGTCATTTTAAG
AGTTACGTTTTCTGAATTTTCAGGTATTTTATCCTGTATTGTCAGCACATTAAATTAGGGAACACATTCATT
GACATTTCTATGTATTTTCTTTGTATTTCAAAGTCAGAGTCAAGTATTTAAAAAGATAAGATCTTTTCATT
TTGTGTGTGATCCACGGAATACCTTCTACTGTAGATTTATTAAATCTCTCCACCTCTGGCCTCTGATT
AAGGAATTGCAGAGTATTCTCTATGACAACCTATTAAACCTATTATCCCCCAGGGCGGTTTAGTATAT
CACTAAATATACTTTTAGTGATATTTGTTGATTGGAGCATAGCTTTTGTGTTTGCCAAACATCATTGATG
TGTTTTGAGGTCATGTGGTTGTGGGGGGCAGGGGGTGGTTGTAAATGTAATAGTGTCCCTCTAGTATTGT
AATACTTCAAGGACATAGAATTTATTTTTTAAAGTCTTAAATCTTTTTGTGTTTCTAGGAAATCTT
GAGTCTATGTTCTTTGATTTGAGACTATAGAGTTTCTTGGTAAAGTCTCCAATTATTGGTTTTCTGAGTA
AATCTTGAGAATTGGTGAGGCTCCCAGGATTATTGTTTGTATCCTGTTCTAATTAATAGAGAAAAAGC
ATATAAATCTTAGATGTCTTAGATCTGGGACTATTGCATCTACTTGGCTTGAGCCAAAGTGTCATCTAAT
TTTTATCCAGTAATTGTGGCAACATATTGCTTCCAAAACAAATCACATTTGTAAATGCATATTGAGCATT
TTCTACATGAAGGGCATTACCAGGGAGTGAAAGAAATATAAGGTCTGAATTTTGTCTCTGGGAGAGAAC
ATTCTAGTGGGAGAGATGAGTTGTGAAAAGTTAAATAACAAATATTTATAGATGGTCAATATAGGAACTT
GCAAATATTATTAAGATTAATTACATGTGAAAATTTGTTATTGAATTCAGGGCAAAAGAGTGAACCTAA
ACTGAGTTGCACAGGAAGAACTCATAAAAAGGTGAGCTTGTGTTGGATGAGTGGATTTGGGCAGATAAAG
AAAGACAGGAGCAAAAATAAAGAGGTGGAAGAACACAGGGGTGTTTGATGTATGCAGGGCAGGAAATCA
GTTGTATGGTGGGGGTACCTTCAACTTAAACCTCTGTACCAGTTAGGGTGCTTGAGTTGTAAGAAGCC
GAAACCAATTCTGGCTCATTTAGGCGGAGAAAGAATTTACAATCCATGACTAGGATATATCCCTCCATCT
ATTTAATCCCTGTTTAACTTTTCTTATTTTTTATAGTTTGTATAGTTTTCTATGCAGAAGACTTGCACA
TCTTTCGTTACATTTGTTTCATAAGTATTTGACACTTTTATGTTATTATTAAAGATTTTCTTTTTTTTTT
TTGAGACGGAGTCTCACTCTGTGCCCCAGGCTGGAGTGCAGTGGCGCAATCTCGGCTCACTGCAAGCTCC
GCCTCCCGGGTTACACCATTTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGACTACAGGCGCCTGCCACCA
CTTCCGGCTAATTTTTGTGTGTGTGTTTTTAGTAGAGACGGGGTTTACCCTATTAGCCAGGATGGTCTT
GATCTCCTGATTTCTGTATCCAACCGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGCGAGCCACAGC
GCCCCGTCAAGAGTTTTTAAAAAATTTAGTTTTCTAACTGTTGACACTACATAGAAATACAATAGATTTT
TGCATATTGTCCATGTATCTGCCAACTTGCTAATTTAACTTATTAATTATAATAATTTTATCTATGGAT
TCTTTTGGATTTTCCAAATATACAACATGCCATATATGAGTAGTGACATTTTTTATTTCTTCTCTAGCT
CCGTAACCTTTATTTCTATTTTCTTGACCTACTGCATTGACTAGGATCCTTTACTACAATGGGAAGAAAAAG
TGATGGTGGGCATTTCTTTCTCACTCCTGATCGCAGGGCAGCATTTAACTTTTACCATTATGAATGATG
TTTGCTCTACAGATTTCTGTAGAACCATTATCAGATTCAGGTAGTTAATCCTAACTTGCTAACAGCAA

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TTAAAAAATGAAGTAATATAAAAAATTAAGAAATTAATATGCTGCTAATGATATGTTGTTGAGTAACATA
AATATACCAATTTTTCTATATCTACTGAGATGATCATATGAATATTGTTCTTTATTTACTATGGTGAATT
GCATTCATTAATTTTCTTTTCTTTTCTTTTGGAGACAGAGTCTTGCTCTGTCACCCAGGCTGGAGTGCA
GTGGTGCAGTCTGAGTTCACTGTAACCTTCACCTCCTGGGTCCAAGTGATTCTCCTGCCTCAGTCTCCCG
AGTAGCTGGGATTATAGGTGTGCACCATCACGCCCGGCTAATTTTTATATTTTAGTAGAGATGGGTTT
CCCCATGTTGGCCAGGCTGATCTTGAACCTCTGACGTCAAGTGATCTGCCTGTCTCGGCCTCCCAAAGTG
CTGGGATTACAGGTGTGAGCCACTATGCCTGGCTGGATTCAATTTTCAAATGCATTTTAAAATTTCT
GAACTAAATCCAACCTTGATTATAATATACTATCTTTTTTTAAGGGAAGTAGATGAATCAGACTCAGCA
AAAATAGGAGCCAGAATAGCAACTGATACGGTTTGTCTATATTCCCACCCAAATCTCATCTTGAATTGTA
ATCTCCATAACCCCCACTTGTCTAGGGAGAGATCTGGTGGGAGGTGATGGGATCATGGTGGCAGTTTCCC
TCTTGCTGTTCTCGTGATAGTGAATTCTCATGAGATCTGATAGTTTATAAGGGCCTCTTCCCCCTTCGC
TACTCACTCTGTCTCTCACCTGCCACCATGTAAGACGTGCCTTGGCTACTCCTTTGCCATCTGCCATAAT
TATCTGAGATCTCCCCAGCCATTTGGAACCTGTGAGTCAGTTAAACCTCTTTCTTTATAAATTACCCAGT
CTCAGGCAGTTCTTCATAGCAGCGTGAATAATTAATAACAGCAACCATGGCAGGGGAAGGCCAAGCAC
CTTGACTGAGTATATCCAATGGGAGAGGAGATTTTTTCTCACAGCCAAATCAGGACACTCACAGCTTTG
TGTTTTAAAGCTTGGGCTCTGGACTCAGGCTGCCTGGTTTGAAGTGCCAGTCCCTCCCTCTTATGTGGCAG
GGGACCTTAGCTCTGAGTATCCTTCTCTATAAAGGAGGATGATGTTCTATTTACCCAATAAGATTCTAAG
GATTAAATGATACATTAAAGTGCACAGGTGAGTCACTCTCAGCCCATAGAAGTAATTATAATTCCAGCT
ATTATTATTGTTATTTGTGAATATGAGAAAGAAGAAAGTTCACTCTGACATCCTGTAAATGGAAAATTCA
ACTGAACATTGAAAAATGTTTAAATCTGTCTATCAGAAAGTTTTTCATCAAAAAGAAAACACTGAGTAGTC
TAGTGTTGTAGCTTGATCCAAAACCTTGAATAATTTTCAAACCTCATTTATGATATCTGAAATATTCAATG
ACTTATACCTTTGAATTTTTTGGCAGCTTTGTGGAGGTATAGCTGACATATAAGAACTGCAGATATTCA
AAATGTACAGTTTTATAAGTTTTGATGTATGTATACAACCATTAACCCTACCACAATAACATAAGGAA
CATACCTGCCCCCATCCACACATTTGATGCGCTCCTTTTTAAATTTCTTTTCTACCCTCCACCCCTC
ACTGTTTACCAAAAAGAATGTCTGATGGTGCCCTGGGCAGTCCCACTCTGCCTAGAAAACACCATAGAAA
AAGACAGCAAAAGTGCTTTCTCACTCTGGAGTTCTACTTGATTTTAAATGGACATAGATTAGTGTGAACCA
CATAAACCAGTACTAAAATACAGGATTTGATCTAGAAAAGGTGATGCTAAAAATGCATGTAGATAAAACC
TAATTTTTTTTTCAGACACCAAAATGAAAAATTATTAGTATGCCATGACACATGAACACTTTTATATTCCAC
AACCCTGTGCTCTCCTTTTGGTGTTCATTTGCAATGGATGGAATGTTTATGTCCCTTCCAAATTTGTAT
GTTGAAATGCTAACTCTCAAGATGATGGTATTAGGAGGAGAGGCTGTTGAGAGGTGATTAGGCCATGAGG
GTGGAACCTCAAGAAAAGGATTAGTGCCCTCAGCAAGAGGCCTAGGAGAGCTAGCTTGCTCTTCCCAG
CATTTAGGGACACAGCAAGAGGGTGCCGTCTGTGAACTAGAAAGCAGGCCCTCACCAGATACCAAATTTG
CCAATGCCTTGGCCTTGGACTTCCAGCCTCCAGAACCATGAGAAGTAAATTTCTGTTGTTTATAAGCCA
CCTAGTCTATAGTGTGTTTGTGTTTAGCAGGCTGAATGGACTAAGGCATTATTTATTTGTGAGTTCTATTC
ACCATGGAGCATATGTGGCCTATGTGTCCCTGGCACTGAGGCAGGAACTGAGCAGAGTACGCAGGGGAAT
TAATAATGCTTGGACCTATCTTTAAAACACCTAGAGTTTAGTAGGAATCAACTGGAAGTAGTAGGGTAAA
GGAAAGTAGGTGACTTTTGTGAGCCCTGCCATGTGCTAGAGACTGTGCTAAAGTGATTTACCCACATTA
TCTTATTTGAACCTCATGGCAAGCCTGTGTGGTAGGTCCTATTCCTCTATTTACAGATGGGGAACTGAA
GCTCAGAGACATTAAGTAATTTGCCCAAGGTTATAGAATTATCAGCAACAAAGCTGAAAGTGGCAAAGGG
CTCTTTCTAGTCAGGAGGAATTAAGAGAGCTTGGGTGCAGTGGCTCACATCTGTAATCCTAGCATTTTGG
GAGGCCAAGGTGGGAGGATCAGTTGAGCCCAGGAGTTTGAATCAGCCTGGGCAACATAGTGAGACTTCG
TCTGTACAGAAAAAAGAAAAAAGAAAAAAGAGCTTGGGATCGTGCCCTCCTGTGACTCAGCATCACCTT
AGTCTTGGTCTGCCTCCATTCTGAATTGTGCCCTAAAGCTAGTCATTGCTTCCCTTCTTGGTTTCTGTAC
AAGTTTCTGCCTCTCCCACTGGCCCATTTCCGGGGTTCTGTTTCTGTTATGCACATCAATCCCTAGATT
TCTGAGGTCCCAGAGGGTGGGCTTCTGCTTAGTCCCTGTTTGTCTTCCCAGGGCTAGGCATCCTGGTCTT
TAGCCCTGGCACTGGGGCTTCTCTCCCTGCTGCCTTCGACCCCCGGGGCTGACCATCTGCTGCTCTATC
CCTGCATCCTGCCAGCTTTTCATATCCCTGTCTCGAGCTCTGCTTGGCCTTTACTCTTGAGGGGAACCTCC
CTGCCTCCACCTGTTGGACTGGTCTGGTCCCTTCACTGGTCCCTGCCCTTTCTGACCATCTTCTACTCTGG
TCTGGCCTCCCATTTTCCAGAGCTCATCTGTCTCCATGTGTGCTTCTCAGAGGGTCTTGAGTTCC
AGCTTTTCCAGGTCTGGCTGGTGGCATGGCCAAAACCTGTCCACCTCTCCCATTCGAGTTCTTCACTAG
CTCCTTTTTGACAGTTCTTTCTTTTGGGGTCTAGCTTTGGCCTTGCTGCATGAATCATTAACACATAA
ATATGTGTCTTCACAATTAATTGTTTCCATTTGGTGTGTTGCTCTAGTCAAGGAGGATGGAGAGGGAGCAA
CATCTTGACTGAATGTCTTGACATCACTAGAACTAGACTGCTTGCTTCCCGGCATGCTGAGGTCT
CAAGAATAAAGAGTATCCCTGAAGACATTCTTATCAGTCTTCCCTGGTGAAACATTTCATCCTAATTTTT
CCTTTTAGCTTTGAGACCACTTTTGCATGATTTTTAATATGTCATTAAATTAATAGATATAATTTTTCTC
TGTCTAGCCAAGCTGCTGTTAGAAGAATCTTTGCATACAATAATCATAAAAAAGACATTCTTCTTGCCT
CTTTGGAAAGGAGCCTGTGTACCTAAGAGTGAGGAGTACACTCATTTTGTGCTTGTTCATCTGCT
CAGGGGATTATTGATTAGCAGATAGAATGTGGGTGCAGGCTGGGCGCAGTGGCCATGTCTGTAATCCAGC
ACTTTGGGAGGCCGAGATGGGTGGATTACTTGAGGTGAGGAGTTTGGAGCCAGCTTGTCCAACATATAGC
GAAACCCCCGTGTCTACTAAAAATATAAAATAGCTGGGCGTGGTGGTGCATGCCTGTAGTCCCAGCTAC
TTGGGAAGCTGAGGCAGGAGAATCGCTGAACTCCGGAGGTGGAGGTTGCAGTGAGCTGAGATCGCGCCA
CTGTACACCAGCCTAGGTGACACAGTGAGACTCCATCTCTCAAGAAAAAAGAAATGTGGGGCA
GATAAGTTTTTGGGGGGTTTGTCTTTAATTCCTTTGGAAGAACTGGGCTTGGCTGGCTGGGCACCTAGAG
CAATGTGGATATGGGCAGCTGCTTGTCCCATGGATGCCAGGGACAGAGTCACAAGAGAGATGGTTAGAAA
TGGTGCCAGGTTCTCGCTGCCTCGTGCCAGGTGAGCTCCCAACAAAGCCTTTGTACAAGACACATATAAA
CCCTCAGAGAGTTTATGCTAACCCAGTGTCTTGGCCATGGCTTACTCATGATGGAAAACCTGATCATATTT
TATTCTGGCCACATGGAATAATAGACATGTAATCACTATGAGATTTGAGTTGCAGGGTCTTTGGTTTCTA
ATAACCTTTATAATTTTCTCCCTCATCAGGGAGACAGAATAAGGTGTTTACATTACTACTTTTCAATTTGC
AAGAATAAGATCGAGGTAAATCTACAGTTATGTCTTGATAGACTGCAGCAGATTTCTGCATCAGTAGAA
AGTGCTGTTTTCCCACTAATCAGAAGAAGAAAGTGCTAGCCATAATGATATGGGTCCACTGTGAAGTAGA
AGACAAGAAACAGAGCAGGACGTGGAATTGGGAGCAATGAGAAAAGGTGCCTAGAGTTGCTCTTGGCACC

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ATCTGTTAAAAGGAAACATTTAAACTTAGCTATATATACTTTCTGAATTTGTATGTACATATAAACTTA
TAAAAATGAAAAATGCTAATTGTTTTTCACACGTAAGTTTGGTAGCCTCCCTTTGGTATGTTCCCAGACC
AAAAATTATTATTCTTCCCCATGATTTTTTTCAGCTACATAATGTTCTATTTTATGGAAGTACATCATT
CCATAATTGAATTTCTTATTAAGACATATTATTTGCAAATCTGCAACAAATGTGCATGTTATTTTAGAC
GTATGTTTGGTTATTTCTTTACGATAGAGTCCTAGAATCACCGCTGAGGCAAGGGAGATGCACATTTGA
AGCCTCTTTATTCATCTTGCCAATTGTCCTCAAGAAACATTGTTTCAAGTCCCATTAAATGCAAGCAATGA
ACAAAAGTTTTTATTTTCTGGATACTGGATGCCTCTGGCTTATTTTTCTTCTATTCTGTTTCTTTAAT
AGACAAAACAAAAGAAAAAGTTTCTCATATCAATGTGCATTTTTTTGCGATTTGCAAAAAGTTCAAAAAT
TAACAAAATTTATCTATTCCCTTGAGTAAATGTATGTGGTTCAAGATGTCAAAGAAACAAAGTATTGTGCA
GTGGAAAATGAGTGCACCTTCAGCACCTGCCTCCCAGACATCCATCAGTAACCCTCTCAGGAGGCGACCA
CTGTTACCATTTCCCTTGACTAGCCTTCCTAGAATAATTAAGCATATACAAGCAAAGAAGGGTATAAGGGT
ACACACACAAATAAGCATACTACATATATTGTTTTTGGCCTTGTTGTTTTTACCTAACAATATATTTTGG
AAATTATTCCATATTAATAATCAAATAATGATATTATTATTTTTGATGCCTACCTACTATTGCATTATAA
GGGAATTATAAGGGAAGGGTTGCAAATATTAACATCTGTTAATTAGCTTTGGATATTTCTTCTTTTGCAA
ATACCTGCCAGTGTCTTTGAGCAGTCTTAGAATTGTGGTTTTAATGTTTTGTTATTGATGATGATTTGT
AAGTCTTTGCTGTGAAATAAGATGACCGACCATTTGGTATTAAATGATGTAAATTTTATTTTACATTTTCT
TGTTGTCTTTTCAATTTTGTCTTCTGGTGGTAGGCTTATTTTGTGTTGTTGTTTGTGTTTGGTGTGGC
TATGGAAGTCTTTTTGGGCAATCAAATCTATCAATCATTTTGATTGATTGTTGAATGATTTTCTGGAT
TTTCTGGATGATCAGAGGCTAGTGTGTCTCTTTGTTTACTTAGATTCTTTTGACAAGGGCTTTGGCTA
TTGTGAATAGTGCTAGTATGAACATGGATGTGCAAAATATCTCTTCGAGACCCTGCTTTCAATTATTTTGG
GTATATGTCCAGAAGTGGAATTGTTGGATCATATGGTAGTTCTATTTTTTAAATTTCTCAGAACTGCCAT
ACTCTTTCTCATAACAGCTGCACCATTTTCACAATCCCACCAACAGTGCACAAGGATTCCAATTTCTCCAC
ACCCTCACCAATGCTCGCTATTTTTTGGGTGTTATTTTTGACAGTAGCCCATCCTAATAGGCATGAGGAT
CAATTGTTCTGAACATAACATTTCTGTGAGGGTTTTTAAAAAGTTTCCAAAATGACATCCCTCCAGCTCC
ACATATTCTATAAGAGCAATATCATAAATTAGAAGCTGTCTATGAAAACCTGTAGTTGGAAGATGTTTGT
TTTCTGTGGGTAGTTACATTTTACATATGCCTCATTTGTGAAATAATTTCTAATGTGCATGAGCTGGAA
TTCAATGCCTGTAGTCAAAGTAGGCTTAATTTTGAATTGGAGTTGATTAAAATGAAATGACTAATTAGCT
TTATATTGACTTGGGAGTTGTCCCCTAAGGAAGGCATTGGGACAATGTTGATACTCTGATTACCTCTATT
CCTACCTCTGTTAGCTTAAATATTTAGTACTGCATTCAGCACCCAGCAAGAATTTCTAGTATCTGAAGGC
AGCAGGATACTTGCAGCCATTTTCAAACCATGGAATATGGATGATTGGTAGAGACTTCTCTATCTTGAGT
CCCTTCTAATATTTTCTGCTTTTATCTTATTCTAATAAGAGGGGCTTCACTAAGTAGGACTGTCTTGCTTG
ACCACTAGGGGATCAAGGTTAAGTTTCTTAGTCTTGTAATTGTGAGATTTCTAGTCTTTAAAATAGGGA
TAATGTGATGGAGTACCTATGTGAGATTGCAAGGACCAACGAGCTAAGGCATGAAAAGCATTTAGCAA
GGTCCCTGGCAAGTAAGGGCTAAATAAACATGGTGTCTTGTGATGTTATGTCTTGTAAACCATTTGAATAA
TCTCAGTCAATCAGATTTATATCAGGGTACAGGTTCTTTTCTGGGGAATTTTCTAGCACCAGGTATTTT
CTGTTTATCTTCTATGTGGATGGCTTTTCTTATTTCTTCTCATTGACACCAAGGGATTCCAAGTCCCAT
TCTGATTGTGTATTGTCAAAGTGAAAACAGCTGTGGCCAGCAGAGCCATGACTATAACCATTTTCAAAG
TCCTGTGTGTAACAAACCTCAAGGATTGATTTTCACTAAGCCTTTCTCCTTGACTGTCAAATGACAAGC
AAGGGTATGCAGATGATAACCCCGAACCCCTTTGATCCCATTTCCAAAATATGGCCATGCCATAGATGAA
GGCAAATTGTTTTATTTTCTGTTGGCCCCATTGTGTATGCTCTAAGTTTCAATTTGGACTTCTGTCTT
TACTGATAGCAATTTCTATTTCTTTCAGACAGAAGCCCCCTTCTTTCATACCTTTTAGTTGCATTTCTTAG
CATTCTGGCCGAGTCTTCTACTACATGGTCTTATTTGTGATCTCTTCCCTTTCTTCTCTCTCCATCC
CTTTTTTCCATTATTCTATCCAGCAATATTTATTGAGAACCAACCATGTGAGGGGCAGCACACTGGACATT
GTCTTGGCTTCTCTGTGACTGCAGATTTAATGGATCACTTTAGACTTATGCCTGTATTATTGCCAGGGT
TCCCCTATGTATATTGAAACAAATATTCTCTGGGGATCTTCCATTTTCTGCCACTGATTTTTTCTTTCT
TTTCTTTTTTTTTGAGATAGAGTCTTACTAGCTCTGTACCCAGCCTGGAGTGCAGTGGTGGCAGCTCTG
CTCACTGCAACCTATGCTTCCCTGGGTTCAAGTGATTCTTTTGCCTCAGCCTCCTGAGTAGCTGGGATTAC
AGGAGCGCACCATGCTGGCTAATTTTTTTTTTTTTTTTTTTTTTTTGTATTTTAGTATATACAGG
TTTTTCTCATGTTGGCCAGGCTGGTCTCAAACCTCCTGACCTCAAGTGATCTACCTGCCTCGGCCTCCCAA
AGTGCTGGGATTACAGGCGTGAGCCACCACACCTGGCCATTTTCTGCCTCTTCTGATTGGGCTGTGTATC
TGAGCTGTGTCTGGGCCACTGTGCCATCCCACAGCTGACAAAATGGCTCTCACCTCCAGGAAACTCTTA
CCTCAGCATTTTTTCTCTGTCTTGAGCTTTTCTTTTGTCTCTGGGAATAGTCTCTTACTTTCTTGGA
GCTTCTTTTAGTTATTTTTTGTATCAATTTTTTTTACACAGTTTTTTTGTAAACGGAGCAAAATATTTTCA
CTTGTCTTGGCATGTGTGTGTCTGTCTCATCTATCTGCCTGTGTCTATGTTAACCGTTCTTTGAATCTG
ATGCCCAATATTCTATTTGATTCTGTTGATTCTGAAAATTTCTTTTTTAGTCAATTGGTTTAGCATTTCTAC
CTCTTCTCCTTAAACCTAGGATTTTCTTTAAAAAGTGTGGGACTGATGTTCTGTCTTCTCAGATTGGCG
AACATGGCTCAAAGACCACTAGTGTAAAGCAGCAGCAGCTTTTCTATATTCTGCTTGCTGTGGGCACTT
GTGATGTCCCACTGTGGCTGCCATCAGCAGAGATGTGGATCCTGGTGGTGGCTGTGTCTGCCTCCTGGCC
AGCCAGCTTCCCTTTATAGGGAAGAAATGCTTCCGCTTCTTACTGGGGTGTGAGAGGCGGGCCCGTCAGTC
ACTGCTGCTCCCTAGCACTCATAGCAATGTCCATTTTCTATCCTTTGTGCCCTGATGATAATCTTTCTGG
TATCATAACTGTCTTCTCCTCCCTTCCCTGTCTCCTCTTCTGCTTTTTTTCTTCTCCTCCTCTCCT
CCTCACTCCAGTATCAAGGCTTAGCTTAAATGTGTTGCACTATAAAGGCCTCATATTTTAAAAATATAAT
TCATTCACTCCTCCTCTATGCCAAGCTTATTTCTTTGTTATGGCACTTTTCAATTTCATAGTATAGCTCT
CTACCGAGGAGCGCATACGGGATAAGGGCAGAGTATGAGTATTTTTTGGAGCCCAAAAAATAATAGTCATT
TTTATTGGTATAGCTTCAAGCATAGTTTATTTACATGATTTATGTTTTAGGAAATTTCAAGTGCAGAAAA
ATTGCCAGCAGTTAGAGATGATTGGGTTATCAATATGCTCCCTGTTTTTGGTGTATTTTTTCCAGCTT
TATTGAGGTATAACTTACAAATAACATTGTATATGTTAAGATGTACAACCTGATTTTTTCAAATTAAT
TATTTTTTTGAAGTAAATTTTATTGTGTATACTTAAGGTGTACAACATGACGTGATGAGATATATAGTA
TAATAAAATGATTACTACAGTGAGGCAAACTAACGTATCCATCATCTCACGTTGTTATCCAACACTAAAA
TCTACGCATGGAGCAAAAATGCGGAATACAGTACAATATGATTAACTATAGTTCTCATGTTGTAGATTAA
ATCTCTAGACTTGTTTATCCTATATCTGCTACTTTATAGCCTTTGATCTACATCTTCTCATTTTCTTCCC

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TTCCCCAACCCCTCCCCATAACCACTGTGTTATGTTCTATTTCCGTATATTTGACTTAATAAAAAGATTCC
ATATATAAATGAGATGATGCAATTTTTTCTGAGTCTTTGTTTATTTCACTTAGCACATAAACCCTCCACC
AGGCTCATCCATGTTGTGGCAAATGGCAAGATCTCATTGTTTTTAAGGCTGAATAATATTCCATTTGTC
CATTTGTCCATGAATTGTCACCTTAGGTTGTTTCCATATCTTGGCTGCTGTGAATAGTGCTGCAATGAACA
CGGGGGTGACAGATATCTTTACGAGGTGGTGATTTTCATTCTTTGGATATATATTCAGAAGAGGGTTTTCT
GGATCACAGAGTAATTCTATTCTTAATTTTTTGAGAAAATTTTCATACTGTTTTCCGTAATGGCTGCAGCA
ATCTACACTGCCACCAACAGGGTACAGGGTTCCCTTTTCTCCACACGCTCACCAACACTTGCTATTTCTT
GTCTTTTTTGGTAATAGAAGGGCAGGGCATCATTAAATATTGTTTCCCTTACATGTGCTGAACAAACACAGC
AGAGCAGTTACCAGCGCTAACTCTGGAAGTGGCTTGCTCATGCTCATCTCTTGTCCCTGCCAGTTCCTAA
CTGCGGAAACTTGGGCAAGTTGCTTAACCTCTCTGTGCCTTCCTTTGTTACTTGAGCTGATAAAAAATAA
TGCTTAGAACAGTTACTGCCATATAAAAAGTGCTATTAAGTGTTTGTATTATGTGTTGAATTCAGCTTA
ATAGAATCATCATCAGGATCACCAGCAATTTATTGAGTGACAGTGTGTGTTTTATTCAATTGATCGTCATT
ACACTTAGAATAGGGTCGGGGATATAGCAGGCATTCAATCAATATTTTGAGGGAATGAATTAATGAATG
GGCTAGATGTTATATGTACAAAGAAATATGTCTAATTTCTTTCCCTCAGGTCTCACAGATGGTTGAGAAT
ACAAGATGGAGATAAGACGAAAATTGAATGGTGCTTAATATGAAGCCCTCAAGGCTGCCTCTTTCAGAA
TCATTTAGGAGGCTTATTAATAATTGCAGATTTGCTAGCCAAACTCTCCTCGATCTCAGTTCCATAGATCT
GGACGTGGGTCCAAACTCTACAGTGCCAAAGAAAGCTCCCCAGGGGCTTCCGGTGAATTCCCAAGAACAG
CCAGGACTGGGATCGCAGGCCAGGCAGTAAATGATACAGGAGATGAGAGGAGGGAGAGCTCTGGGGGCTG
ACACTGTTGGGAAGGCCTGGTGAGAGGGGAGGTACCTGCAAGGGCATGTAGGGCTTGGGCATGGGGTGGA
CTTGATCGTGGGGGCTTAGACTGCAGTAGAGACATTCTGGTCACATTTGCCCGCCCATGAGTTCCTTCCG
TCTCCTGATGTGCCCCAGCAATTTTCATGTGCAAAGTACACAAGAGCCATTTGTTGGAAAGTACCTAAATC
ACTCTATTTACTGAGTGCTTTACTTGCACTTATAAATCTAAACAAATTTTCAAGCAAATAAACAAGTGT
GTGGATATGGAGCAGAAATACCACTCATGGCATCCTGAACCTGGCCCTCTGACTCAGTAATTAGTATCCT
AAAAGTGAAGTCAAGCATCACATTTTATTTTTCAGGTTTTACATACTTCATAGAACTTGGTCTCTGATGTT
ACAGAGATCACAGTAACAGTTTACCTTATCTCCAGAATTTCTAACTTCTCAATGGTGGCATCTCTCATT
GAACAGGTAGTCACCAATAGTTCCACACAAAAGACTCTCCCAATGTGTCAATTTATTAACAAACAAACA
GATTTGATATACAATTAATATACCACAAAATCACCCATCTAAAATGTACAGTCTGGTAGTTTTTAACATA
TTCAGAATTCTGCAGCTTTCACCACGAATTAATCGTAGAGTATTTTCATCACCCAGAGCCACCCCTCCC
TACCTTTAGTCACTTCCCATTTCCCCGGCCCCCTGATAATCACTCATCTGCTTTCTGTCTCTGTGGAGTAC
TATTCTGGAAATTTTCATATAAATGGAATGATACAACATGTGGCCTTTTGTGACTGACTTCTTTTACTTAG
CATACTGTTTTTCGAGGTTTCATCTATATTGCAGCATGTGTGACACCTCATTCTTTTTGTGCTGAACACT
ATTCTACTATATAAATATACTTTCATTTTCTTTATCCACTCATTAGCTTGACACAAGTGGATTTCCACTT
TTTGGCTATGTGCAAAGTTTTCTGTATGCATGCATGTTCTCATTCTCTTGGGTACCCACTTAGGACTGGA
ATTCCTGGGACATGTGCTAACTGTATTTATCTAACTTTTTGAGAAATCTTCAAAATGGTTCCCAAAGCAG
CTGCACTATTTTATATGCCTACCAGCAATGCATGAGGGTTCAATTTCTCCACATCCTCACCAGCATTTGT
TATTGTCTTTGATTATAGCCATCCAGTGTGTGAAGTAGTATCTTGTATAGTTTTGATTTGCATTTTC
CCTAATGATAAATGACATAAAGCATCTTTTCAGGCATATTGGCCATTTGCATATCTCCTTGAGAAAATG
TATGTTCAATTTTTTTCCATTTAAAAATTTGATGATTTTAAATTTTATTGTTGAGTTGTAAGGATTTCGTT
ATATATTCTGGATAGTAGACCCTTATCAATATATGATTTGTAAATATTTTCTCCATTTTGTGAATCTT
TTCATTTCTTGATAGTGTCTTGGATGCACAAAAGTTTTAGTTGTGTTGAAAAACAGTTTGTATATCT
TTTCTTTTGGTTATTTGTGCTTTATGTGCATATCTAAGAACTGTTTCTAATCCTGGGTGAGGAGACTTA
CAACTCTGTTTTCTCTAAGAGTTTTATAGTTTCAGCTCTTATATTTAGGTCTGATTCATTTAGAATTAA
TGACTTGTATATGGTGTGAGGTAGAGGTTCAAATCTATTCTTCTGCATGTGGCTATCCAGTTGTCCGAGC
ACTAAATGTTTAGTCCATTTTCATCCTTCCATTTTGTCTTGTCCAGGCTGTTGAAGTAGCCTCCTCACAG
CTCTCCCTGCTCTTAGCTCTTCTCCACCAGAGTCCATCTCCACCATACTACCAGTTATTCATCTTATAC
ACAGATATGATTATGTCCTTTCTTAAATAAAAAAATTTATTCTTTCTTAGTTTCTATAAAATAGTTCA
AATATTCAACATAAAATTCAGGTCTATCTAGCATGACCTCAACCCACCTCCTAATTTTACTGTGTTCC
TTCTCCCCACTTGCTACCCCATCCCAGCCATCCTTGACTTCTTAGCTGGTCTCTTCTGGCCTGAGTGAG
ACATTTGGCCTGGATATATATGCATGGTATGGCTTTGGTTGCTTACTGTGGCATTGGTGCTTATGGGATA
GCCATTGACTTTAATTAATGGGGTGTTATCAGCACATTTATCCTATTGAAATGACTAGAGGAACCCATAA
GAAACCACATTTTCAGGACTAGTAATCTATTTTAGCATCATTGGAAGACAACAACTTTTCATTTTATGG
GTAGACTAACATTACAAATTATGACATATATCATATAATCATAATCATTAAAGTTATATTTTAAATAATC
AACCATCCACCATCCCAACTCTAAGACTTTGTTGGTAAGTTTTGTATGTACAGGTTTCATATTTTTCAC
ATTCTGACACCTACATTCAAGGCCTCAAACCTTTACCAGAGACTTTTTATCATTGAGGTAAAACCTAGAAGT
CATTAATTTAAAAAATTATATTATTTTAAATTATGGTAAAAACATAAAATATACATTTTACCATCTTGAT
TTTTTAAAGCAGTTTACTAGTGTTAAGTATATTCAACAGATCTCCAGAGCTTTTCATCTTGTAACACTGA
AACTGTAACCCATTTACCAACAACTCCTTCCCCATTTCTTCTCCTCCCAAGGCCTGGCAACCACCATTA
TTCTTTCTGTTTCTGTGAATTTTACTACTTTAGATACCTCATATAAATGGAGTCATATGGTATTTAGCAC
AAGTCTCAAGGTTTCATCCATGTTGCAGCACATGACAGGGTTTTCTTCTTTTTCAGGGCTGAATAATAC
TCCATTTTGTCTCTATATCACATTTTTTTGTTTATCCATTGCTCTGTTGGTAGACATTTGTGTTGCTTCC
ACTTCTTGGCTGTTGTAAATAATGCTGCTGTGAACACAGGTGTGCAAATCTCTTTGAGGACTCTGCTTTC
AGTTCTTTGGGATATATACACAGAAGTGATATAGGATTAGGATTGCAGGATCAGATGATAATTATTGTT
TTAATTTTTCAACTTATCTTCTCGAATGAGAACACTAAATTAATTTGTGGGGTTTGTGTCATTTTAGAC
ATAGCTCACGAAGAAGATGGTAACCTTTAAATTGTCCCTGCAACAATGATGATGGGCTTCAGTGATTGTCT
TAAATGAGTCATCATTATTTTGTGTTTTATAACCAACCCATGTCATCTGAACACAAAAGTCAAACCTTT
TTAATACCTCAGGTGTATTTTACACCAAAATACAGGGAAAAGGCATCAATCAAAGCTGCTTAACAGCTGA
TATGATAGTGATTACATGTGATATGGTAGTTGAGACTGAAATGCTATTTGTAATACAAAGATTATCTTAA
CTGAGTCTGATTTGAGGTGAAAAAAGGTACTAATTAGGGTGACAATATGAATTTGATTTAACTTTAAAGT
ATTATGAGAGAAAACATACTATGTCAACACTCTTTTGTATAACGAACCTGGGATTTAGGTATGGAGTGGGT
AGAATAGTGGTCAAGAGCAGGGATTCTGGAGTCAAGTGTTTGGCACCAATCCTGGCTCTGGCCATTGCCA
GCTGCATGAGTGCCACTGGGCAAGCTTCTCACAGCACCAGATTTTTCATCTGTAAATAACGGTTAATAAT

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GGATTGTGGTGGCATTACATGAATTAATATACGCAACATGCCGGAATGACATCTGGCAGGGAGGAAAAGC
CATATAAGATTTTGTAAATTGATTTTCTAGCACAGCTATCCATTCTTAGGTTGTTGTATCTTCCTTGTGT
CATCCCACATATCAATATTGTCATCTGCAAAAAATATACACGTATGTCTCTTTTAACTAATGATTTTAAA
ATGTGGACTAATCAATGATCTAAAATCCCCCTTCCTTTTAGTCAATTAGTAGTTCATAAATTGAAGATGT
GATGGATAGAACATTTTCGTACCCAGAAAGCTCTTAGATTGTAAATGCTGAGGGAACTGGGAGATTTCAG
TGAGTGCAGCACAAATACAATCTAGGTGACTGGAATAGTTTCTAATGAATGAATCACTGAATAAGCAGAT
GGGTTGTGGAAGGCAAACCATGAGTAAATTTTTTCTTTTACTACAGAAATATTTCTGAAAGGTAAATACC
CAGGTTTATGATGATAGACCTTCTTTAACTCATGCTATTTTTCTTTCTGGGTTTGTGTCAACACAAT
CTCATCTGCTCTTTGCAACCATTACCTCTCAGAATGGGTATGAAGATCAGGTGCAACCATGTATGTGATA
ATGCTTCTAAAAGCTATTTTTTTTCCAGTTTTATTGAAATATATTTTGCATAAAAAATATAAATCCACCC
ATTTAAAGTACAAAGCTCAGTGGTTTTTCACTACATTACAGAGTTGTGCGATCATTGCCACAATTAATTC
CTTTCTGTCTCCATGGAATCTAATTTTGAACATTTTATATAAATAGAACAATACAATATGCAGTCTTTTG
TGTCTGGCTTATTTTCATTTAGTATAGTGTTCAGGGTCATTTATATTGCAGCATGTATCAGTACTTCA
TTCTTTTTTATTGCCAAATAAGACTTCATTGTATGGATATGTACTACATTTTATTTTCTCATTCATGAGTT
GATGAACATTTGGGTTTCCACTTTTGGCTATTACAAATAAAATTGCTATGAACGTTTGTGTGTGAGTTTT
TGTGTGGACACACATCTTTAATTCCTTGAGTATATGCCTAATAGAGAAATTTCTGAGTCATATGGTAAC
CCTATATTTAGCACTTCCAGGAAGTCCAAATGGCTGTACGATTTTACATTCCAACCAGCAATGTGTGAG
GGCTCCAATTTCCCTACACTGTCATGTACACTTGCTATTATCTGTTTTGTCATAATGGGTATGAAGTGGT
AAAAGTACTGAAAAAAGTGACATATTCATGGAGTAAAGTAAATTTGAAACATGCAGAAAGTATTCTTCA
GGCCCAGACAGCCCCCAGAATTACAGTTTTTTTTCTAGAGTCTTGAAGTTGTCTATGCACATATGAC
GTATCCCTAGATATGTATTTGCAAGAACACATGTAGGAGTATACTATTTTGTATCATTCTTTATCACTTA
ATAATATACCTAAGAGCAATTGCTATAGAACAGGTTGACCTGCCTCATTCTTTTTACTCTTAGCAGAGTA
TTTTTTGTGACGATGTACCTTCGTTCTGTTTTAACAGCTTTTCTAATGAAGGGCATTTTGGTTGGTTTTGC
TCTTATAAGTAATGCCATGCGCATCCACAAGACATACAATTGTTCTTGAGTACATTTGTGAAGATATTCA
CAGGAAAAAACAAGTTTACTGCTATATACCACCATCAACAGGGGATGAGAGTGCCTATTAGCCACAGT
CTTTCCAGCTTAACACTGTGTGTTATCAGCCTTTCCCATCTTGGCCAATGTGGTAGGTAAAAAATAGTTC
AGTAAAGTTGATTTGACCTATAAGGGGCAAATCAAGTTTATGTTATAAAGCTTGAAGTTCAACATTGAA
GTTGAAGTCCAGATAATATGGTTAAAGCTTTCAAATTTCTGAGAAATATGCAGGCATAGAGATTGTGTCT
AAATTTGCCTTAATACATAGTATATCCATTTGCTAATTTGAAGAAGGTGATTGGTTCAATTTATTTATTCAA
CTGGCATTATTTAGCATTTTATCGTATGCTAGGTGAAGTTTAAAGTCTAGAGAGAAGGATGAATAAGAAA
CACACATTGCTTACAAGTAATATATAGTCTAATAAGGGGGACATATATATATAAATCAATAAGCATAATG
GACATGAAATAGAGGCAAGTATTATACAATAAGCTGTGTATATTAGGCCATAGGCTAAGCTACTGTGAAA
AAAAAGGACCCTCAAATACTTGGGAAATTGCTTTTGGGAAAAAGACAAAAAAGCTTGTGGAAA
AGGGTGAAAAGTGGACATGAGAGTAAGGAGAGTAAGCCATTTTAAATAAAATTTTATTTTAACTTCGA
TTGTCATATGGTAAGTGTACATATTCATGGGATAAAATGAAAGGTTTTGACACATGTGTGCATTGTGTA
ATGATGAAATCAGAGTAATTAGCAAATCCATCATCTCAAACATTTATCATTCTTTGTGGTAAAGCATT
AAAATCCTCTCTTCTAGTTAGTTTGAATATACGATGCATTATTGTTAGCCACAGTCACCTGCTGTGCA
ATGGAACACCAGAAGTATCCTCTCACCTAAGTGAACCTTTGTACAGTTGATCAACCTCTCCCCATAG
CCATTTCCCTCTTAAGCAAGAAACATGGAAATTGTACACATTACTTCTGAAAATACACTGGCAAGCCACTT
CTAGTTGCAGGGTAGACTTGGAAAATGAAGTCTAACTGGGTGACCTGTGCCTCCACATTATCTGGAGG
AAGGGGATCACGGAGCTAGGGTCCCCAGTCTGGGAGGCTGGTAGAGAGGCAGCTCGCTGTGCTACTCTGA
TATTTTLAGCTCCGTGGGGGAAAAAGAACTGCTAGACAGAGCTCTGTCAACACAGATCTGACAATCTCAT
TCAGAAACAAGTTACAGAGACCTCAAGTGATTAATAAACAAGATTATTCTATAGAACATCTTATGGTGAC
ATAATCAATATGATTTCAACACTCAGCTAATAAATGCTATGAAATACAATTTATGTAAGGTGTTAATTGA
CATGTCAGGTTTTAAATACAAAAGGAATGAGGGAGGGAGACATGAATATAGATGGGTGTTATCAGAGAAT
GACACTTAGATACATTTCATATTGTGTGTCATGTAACTAATACCTACTTTTTGGGATATTTCTTCATGGTT
TAGTTTTTAAATGTAGATTCAAGAGTTTTATATATTCAAACCTCTTCATGAAAAAATTCAGCTCTGGTTAT
GTACATCCACATTTACAGGAATTGAATTTTTCTTTTTGTACACTTGTGAGTATATTTTTTCCATATGGCAA
ACGTTTTCCAGAAAGCAAAAGTTATTTGTGTTACTGTCCCTGATAATCGATGCTGTGTAATAAATCGTTC
TCAGCAATGGCAGTTTGGACACTGATGGACAGTTGGTGACTGGTAATTTGTACAGTATGTTTAGTGGGAC
GGCGGGCAAGGGGAAAAAGTGGCATTGTTTCTCAGTCCCAGATTTGGGTCAATGTTCTCATAATACTG
GTGAGCAAGGAGCCTAATTTCTTAGGAATTTTAAAGGTTTCTTTTAGTGAAGAACATTTCCCAGGTGTC
TAATGAAAAATTATAAATGACCAGGTATAATTTTGCCAAGCTTTCCAACATAGTTTTCTTTAGGGTGAG
AAACAATCCTTTGATTTTCTTGAAGTAGAAGTCTCTTCTCGAATGCTAACAGTAAACAAGACCTTTTCA
GACAGATTTTGTATTTTGCCATCAAATGTGCAATTTTTGAAGATACGGGACTTGAGAATCAGGTAACTT
CGTCTGAAAACCAGGCTTAATTTTATGACTGTGATTAGAAAGTTGAAAAAATCACGTTCTCACAAA
TGAAAACAAAAGTCAGAGTTCAAACCTGTTTATCCTGTTTCTGTAAGCTTTTGTTCAGAAGGCAAGGAT
TATTTGAGGAGAACCTGGAAAATTAACCTCAAATGGAGGAAAAAATGGCGTTTATGCAAAATGCAGCAAA
AGCAGACAGCCTTGGAGAACTGAAGCTTAAATAGCGTAAGAGTCTGAGTACTAGTCTTCAGATACTTAAA
ACAGCATTTGATAGACAAGTTAGATATTTAAGGAAACATTTAATCAGCTTGGCATCAGCATTAGTGGCTT
CAATTTTTGGCTGAGCCTGACTTTGCCATATGATCCTAGACAAATTTGCCTAAAATGGGTGATATTAAC
TCTTTAGGGAAAGGCTCTGTACTGGGATTTTTTTGAGGCCTATGATTTATGGGGTCAAGCTATAAAACAG
GAGGAAACACATGCTCATTTGTATAATTTTACATATATTTGGTCCATAATTGTACAGCTAGGCAATTCA
TTTATTATCTGTTTGAAGTAAAAGTTTGATTATTTTAAATGTTACTACTTCTGGTTTTTCTCTTCTCAC
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CACAGGGTCTTGGAAAATGAATGACAGCAATGGTGCTCCGATGGCAGTTTTGTGAGACTTTGAATGGTTT
ATGAAATCACTGTTGATAAAAGTGAACACCTTCTACTGAAGGGAGAAATTTAGGGGGGAAAAATCCCAAA
TAGAAGGAGTTAATATCCAACCTGGAGACTTACCTGGTAAGGTTCACTTAACTGGTAAAATGTGATCCA
ATTTAAACAAAGTATTTTTAGTTTTCTCAGAACAAACATCCTACATAAACACAAAAAATGATATGAGACA
TAGATATAACTTGGTTCACAATATTTTCCAAACTATAATGTACCAGCCAGTTGGTACAGCACACCAGGA
GAGAAGATCATTTATTAATGTGCTAATAGCAGCATTTTATTTTGAACCCACTCTGCATGGTTACAGGGCT

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CAAAACAACATATTCTAACAGGAAGATACATTACCGAAATATTTTAATGAGAATATTTAATATGCATTGA
GAGGTCCGCATTTTCTTGAGAGACCTTGTAGGTAGCTCTTTGAGATTTCTGTCTCTATGCATTTAAGTG
AAGGAGTTGGTTGGGTATTTTAGTTGGCAAATTTTGCAGACATGTAGCTTTGGTAGTGGAGAGGTAATAG
TACCATGCCCTGCGTGCTGGCGAGGAAGCCCCACAGCAACAGTGGCTTTTAGCAGCTACCAGATTTGCTA
AAAGCAGCCATGTCCAATTAGCAGTAAGTGCCATGCACCTGCAGTTACTAGGAATTGAACCTCTTTTGAG
GCTGAATCTTAATGTAGCCTTTTAAAAAATAGCAAAATCTTACTCATACTCTGAGATAATAAAGAAAA
ATTAGCAATGGCAAATGGACGCACTCTGAAATGTATTCTTAATAATGATTTAGAATATGGGGTAAATGT
AGAGGCAATGACACATTTAACTGCATTATTTTAAATACTGTTTTATCAGTTTACTTCCTAATTTTGAA
TTCAATTTTCATATCTATACTGCAACTGCTTTTTTTTTTTTTTTTTTAGAAATCTATAATATTGCTGCAGG
CTCCCTATGTATGTTTTCCATAATTTTCTGCAAAGTGTTTTTACCAGAATAAAAAAATTACAGTTCAAA
ATTGCAAACTGTAGAAAAATATGCTCTTTGACTTCTTTTCTATGTGTCAAATTCACCACAATGGAAG
GACTACACTATAGAATTAAAACGTTATTTTCAACAGATAGTACTTATTTAACATGTGTTTCAAGCATTAA
AAATATTTAATATTCTTTTCTAAAAATGCTTACATTCAGAACTATTTATGAGGGTTCTGAGCAGTATGA
TGTTTTCTTCTCTGATTTACTGCTTTTTCTCTTTTAGAGGATATTGTAGGAGAAAAACATTTGTTAAGCA
ATTTCCAGAACTACTAGGTTCTAATAAGACCAATAGGCTAATAATTCATTTTATTGCAACTGGAGTGTGT
ACTTTTCTTTTATTCTCAGTCATAATTTTTTAAAAGAGCCAAGAACACCAAATCATCAAATCTAATGTTG
AACATGTAGTAACTTTTATTGCTGATCATACTCTGAGATTCACCATAACGAATAAATCATAAGTATTAA
AATTTTCACTTTTAAACATACCCACTACACTGCTAGCCTGGTAACACAGTCACCAACTACACAGCTTCTT
CAACTGTTGACGTGCTTTAAAGCTAGGATTATGGTATCCTGCCAAAAAGATCCTACAACTGTCACTATT
TTGGTTTGTCTGCCAGCCATTGAGAAGTAGACAATTTCTATATACACAAACCAGTTTGGAAAATTTATG
CAAATAGGAAGTTATTCTCAAATGGGTATTGATTGCATTTTTTTTTTTTTTTTTTGGAGACAAGGTCTG
ACTCTCGCCAGGCTGGAGTGCAGTGGCGTGATCTTGGCTCACTGCAACCTCCACCTCCGTGGTTCAAGC
GATTCTCCTGCCTCAATCTCCTGAGTAGCTGGGAATACAGGTGCATGCCACCCTCCTGGCTAATTTTTG
TATTTTTAGTAGAGGCAAGGTTTACCGTGTTGACTAGGGTGGTCTCAAACCTCCTGGCCTCAAGTGATCC
ACCCACGTTGGCCTCCCAAAGTGCTGGGATTACAGGCATAAGCCACCGTGCCAGCCTGATTGTGTTTTA
ATGTATTGGCTCCCAACCAGTAGCAACAGTTTGGGTGCACAGATATTGCCGTAGTGTCTATTCAATGT
GTCAAATTATTTAGGTAAAAGTTTGGCTTAACTTTGTTGACATGGAATTTCTATATCCTCCAGTTTCTGG
TTTAACTGGTTTATGTGGAATGAATGGAACACATGGTTAAGTTCCCCAGCCTCCAGCTTCTCTCTTCC
TCTTACCTATATTTGTACTTGGCCACTTTTCTCTTGTGGGCTGTTTCTAGAATCCATTATGTTCTGTG
GGTGACATCAGCCTGCTACTGCGGAAGAAATAGAATTTTATGGTGCCCAAGATAAAATCGACTATGATG
ATGCAGAATGAAGACCTGGAGAGGAGTCAGAGATTGCAGGGGATAAAAAGAGAGAAATCAGAGATGCTCC
CACAAACAGAGAAAACTTTCAGAAGCAGCAGGAAGGACAGAGTAAATGGAGAACAAAACTCAAGTCAAA
ATAGTCAATGGAATAAACAGTTTTGAATTCAGTTATAATTTGGAAGAAGCAAACGTTTTATTTTAAA
TTAAGAAAAAGTCGCTTATAATTTCTGAAGTTTAGAAAAGTGAAAAATAGTTAAACCTCCTGTTGTTA
GCTAAGAAGTGCTATTATTATAAGTTTGTGCTGGAGAGAACATAAAAAATCTCTATCTATTGCTATTTT
TTTTTTTTTTTGCATAAGGGATAGATAAAAGAGTGTTTATTTTATTTAGCCTTTGGCCTGTAAAGTAAGA
TTTATGAACAAAGGACAATCGGAAATGATAAGAATTTTTTCTAATTTCTAATTATTTAGCTAAACCTT
GATTGATTTCTCTCAGGCTAGTGCCCATATTACAGCAGCAGTCAGCCTTCATTTATCTTACCTGGGACCA
CTGCTAAATCCGATGTCATTTTTCAGTTTTTATATTATGTGACCATTTAGCCACATTTACCTACTTGAT
CATTCCTCCATCTTGAGACCTCCCTCGACCCGGCTTCCAACATACTTTGCCCTCCTGGTTTTTCTTTCT
CTGTTGGCTCACTTTCTCAGTCTCCTCTGCTGGTTGCTCCATTTTCCACAATCTCTCAAACTGGTGCT
CCTCAGATTAAGTCTTGACTTCTCTCCTTAGATTGACATCTGGAGTCATGGCTTCAAACACCACCTAT
CACTCCCTTTCTCCTTGAACCTCTAGACGTGTCCATCCAACCTGCTACGTGACATCTCCACTGGGATTTCTA
AGAATTTGCCAACTTAACATGTCTAAAACCAAATTTCTGGGCTGGGGGTGGTGGCTCACGCCTGTAATC
CCAGCACTTTAGGAGGCTGAGGTGGGCAGACTACTTGAGCCCAGGAGTTCGAGACCAGTCTGGCCAATAG
AGAAAAGCTGTCTCTACAAAAAATACAACACTTAGCTGGACGTGATGGTGCATGCCTGTAGTCCCAGTTA
CTGGGGAGGCTGAGGCGGGAGGATTGCTTGAGCCTGAGAAGTTGATTCTGCAGTAAGCTATGATTACACC
ACTACATTCAGCCTGGGTGACAGAGTGAGACCCTGCCCAAAAAAAAAAAAAACCAAAACCAAAA
CCAAAAAAAAAAGCAAAGAGCAAAACACAAAAACATATCCAAATCTCCCCTTTAAACCTCCTCTTCT
TACAATGAGTCCTATCTTGATTTATGGCAGATCCTTCTTCCAGTTCTCAAGCCAAACACCATGGGGTCA
TTCTTGACTCCTCTCTTCCATGGGCTCATCTAAACATCAGAGTATCCTGTTGGCTATCTGGAATTTAACC
ACTTCCTATCACTGCCATTGCTACCCACCTGCTCTTAGTTATCACCAGAGTTCCCTGGAGTGTGGAGCC
GCCGCAGAGCTGGTTTCCCTGCTCCTGCCTTTCTGCCCATGCTCTGTCTGCTGCCAGTCAGCTCTGTCTT
TAAAAATGGAATCAGGTTACCTCATGACTCTTTTCTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTT
TTGCTCTGTCTATCCAGCCTGGAGAGCAGTGGCATGATCTCTACTCACTGCAACTTCCGCCTCCCAGATTC
AAGTGATTCTCCTGTCTCAGCCTCTTAAGTAGCTGGGATTATAGGTGCCAGCCACCATGCCAGCTACTT
TTTGTATTTTATAGTAGCGAAGGGGTTTCGCCATGTTGGCCAGGCTGGTCTTGAACCTCCTGACCTCAGGTG
ATCTGCCCCGCTTACAGCTCCCGAAGTGCTGGGATTACAGGTGTGAGCCACCGCGCCAGCCATGACTCTT
TTCAAAAACCTCCCATCTTCTCCACTTCCATTTCAGTAACAGTCAGATCTGCATGGCCCCCTCCTGACCTT
CTGATGTCATGTTCTTTGCTACCCCTTGAGTGCATTGAACATGCCTCTGACCCAGAATTTTCTGTTTGC
TATTTCTCAAGTGCATATCTTGTTCCTTCATTTTCTTTCAGGTGATTATTTAAATTTCACTTCCATGAGT
CCTTCCCTGGCCCCCATATTTAACTGCATCTTCTCCATCTTCTTTTCCCTCCTCCCCATGTACATTTT
ACTCCCTTACTAAATTTTTTTTCTTATCTCACTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTT
TAGGCTGGAGCGCAGTGGCGCAATCTTGGCTCACTGCAACCTCCACCTCCTGGGTTCAAGCAATTCTCCT
GCCTCGGCCTCCCGAGTAGCTGGGATTACAGGCGCGTGCCACCATGCCTGGCTAATTTTGTATTTTGTAG
TAGAGACAGGGTTTCATCACGTTGGTTCGGGCTGGTCTCCAACCTCCTGACCTTGGCTTCCCAAAGTGCTGG
TATTACTTTCTAACCTCCTGTGTATGCTACCTATTTATTTGTCTGTCTCTTACACTAGAATATAAGCTG
CTATGAGGGTAGACTTCTTTGTTTTGTCCAATGCTCTATTTCCAATATTTATAACCGTACTGGCCGGTAG
GTACTGTCAATTATAGTTTTTGAATAAATTGAGAGTAACAAATTTCTAACTGGTGAAAATAAATTAAATGG
GCCGGGCGTGATGGCTCACGCTGTAATCCAGCACTTTGGGAGGCCGAGGCGGGCAGATCACTTGAGGT
CAGGAGTTCAAGACCAGCCTGGGCAACATGGTGAAACCCCGTCTCTATTAAAAATACAAAATTAGCTGG

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GTGTGGTGGTGCATGCCTGTAATCCCAGCTACTCGGGAGGCTGAGGCACAAGAATCGCTTGAACCCCTGGA
GGCGAAGGTTGCACTGAGCCGGCATTGAGCCACTGCCTCCAGCCTGGGCGACAGAGCGAGACTCTGTCT
CAAAATAAAATAAAATAAAATAAAATAAAAGAAAATAAATGATCTCACAGGATATCATTCTTGATTGG
AGGAGGAGAGAAAAATGTGTATGTGTGAGGGTACAGAGAGAGTTCCCTTTGCATTAGTGAGGGTTCACATC
AGAACTGTCTAACCTCCCTACTCAGTGGGTCCCTGTTACCTCTCTCCTGAATCCAATAATACTCTGGTGCA
CACCTTTTACTGGTACTGAGGCTATTTTAACTGTTCCATTAAAAAAGAAAACATTTAAATACAAAA
ACAAGGCTGTACTACTTTAACTCTGACCTTAGAAGACTCTCAGTTTTATACTGTTTAGAGAAAATGTGG
AAATGTTTGCTGGCCCCAATCTTTTATTACTCATCTCTATAAAGAGGCTTTTAAGGACATATTAAAAAG
TTTCCATCTCTCTTGTCTCTTGCCTTTCTTCTCATCTTCCCTTTCTTGTACCCCAAATGGCTGAAAGCAAG
ACCCTGAGAGTCTGGAAGAAATATATTCTGGTCAGAGCAGACTGAGCTGGAGCTGGCCTAGAACCCTGGA
TCCTGACCTCAGAATTGCTGCTCAAATTACTGCTCTCTGAAAGAGTGAGCTCATGCATGTTTATTATTAC
TGTGAACAAATTTAGCTGTTGTTTACCCAAACATTGAAGTTCTCGCTTGGACCCCTTTGCTTGTGTG
CTTTTGCAAATGTGTTTCTCATGTGCTACTAGAACCAAGATGAAAGCTTCAGTTCTCAGAACAGGTGCC
ACGACCGAGGAGACAAAACAAGAGCTATAGAGGGGTGTGGTGTGTGAAACTGAGAAAGCAGGTAGTTTTT
CAGAAAACTGAGAGCCAGGAATGACTTCATCCATTTCTGTAATAAGGCAATGGTCTGACCTTGAGGAA
CCTATTAGAGTGTGCTTCTAAACAGAGGCCATTTGAGGCTGAATGTACGGGAGTATTTACCTTTGACTG
TTTTCTGAAGCAAGGTATTTTATAAACTGTAAAGTGGCTTATACAATTTTAGGAATGGAAAGTTTGCAA
AGTCTCCAAAATCCCTGGGAGTTTTGAATGTGCAGGCCATATGAATCTTTGTAGTTTCATGGTCTTGCT
GTTTCAGCATTCTTTAGAGTCACCTGCATGGTAGAAGTTTAGTAGGAATTTGGGTAGTTATGGGCTGGTTT
CTTTGTTTTCCCAAATAGAGGTAGCAAAATGGATGCTAAGAAGCAAATTACTTTTACTATTTTAGATGCC
TCTGGGGACATCCTGTCATAATGCAACTTAAAAATATACTCGTCTCCTCAGTTCCCTTTTTATGTATTTATT
TAATAGTCTTCAACCAATTTGTTCTTCATTAGCTGTTCTACAATACTTCAAGAGAAGTCATGATAATGAT
GCATTTAGGATCAGAAAAATATAGCATGTGTGAGTTCTGGGGACTTTAGAGAATATCTAGCCCAGTCTT
TCATTTTATAGAAGAGGAAGGCCAGGGATGGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAGGCCAAA
GTGGGCGGATCACCTGAGGTGAGGAGTTCGAGACCAGCCTGGCCAACATGGTGAAACCGCATCTCTACTA
AACTACAAAAATTAGGCAGGCCTGGTGGTGGGTGCCTGTAATCCCAGCTACTCAGGAGGCTGAGGCAGG
AGAATTGCTTGAACCAGGCAGAGGTTGCAGTGAGCCAATATCATGCCACTGCACTCCAGCCTGGGCAACA
GAGTGAGACTCTGTCTCAAATTAAGAAAAAAGAAAGAGAGGAAGCTGGGGGTGAGGACAG
GCAGTGACTCACCCAGGCTCTCAGCTGATTTGCTGGCAGAGTTAAGCATGAAAAGGTGCCTCTCCTAGT
CTCTTTCCAGTGTTCTTGTCTCATCAATGAGTTAAATAAAATTAAGTCAACTTGGGAGTAATAACAA
TAACTTCTCAAATCTACTACATGGTCTAGAAAACCAACATAAGGCCGACGCAGTGGCTCACGCCTG
TAATCCCAGCACTTTGGGAGGCCAAGGCAGGCGGATCAGGAGGTCAAGAGATCAAGACAATCCTGGCCAA
CATGGTGACACTCTGTCTCTACTAAAACCACAGAAATTAGCTGGGTGTGGTGGTGCCTGTAGTCCC
AGCTACTCAAGAGGCTGAGGCAGGAGAATTGCTTGAACACGGGAGGCAGAGGTTGCAGTGAGCCGAGATC
ATGCCACTGCACTCCAGCATGGCGACTGGACTCTGTCTCCAAAAAAGAAAGACACCCAAA
CATAAAACCAGAATATTCTGTGAGTTCCATTACATAGGACAATATGGTCCCTGCTGATCTATTAAATTA
TGTTTATAAATTAGAGGCTCTTCATTGGGAGATATACTTAATGCTAGATGACGAGTTAGTGGGTGCAGCG
CACCAGCATGGCAGATGTATACATATGTAACCTGACATTGTGCACATGTACCCTAAACTTAAAG
TATAATAATAATAATAAAAAAAGAATAACAGGAAAAATAATTAGAGGCTCTTTACTGTATTTAAGGT
GTTCAAATAATTGAAGCTAGGTTAGTATCTCCTTAGCCTTTCCCAGCATGCCCTGCAGCTTTGACGCTG
CAGAACACCAGTTGGTGGCTGATATTTAGATGATGGAATACTTGGACACATTTTGCATTTTGTATAAAA
TGACATGGCACTGATGGTTACATTTTACAAATATTTTGGCGATGTATATACAGGTGGCATAACCAAGAA
GGAACAGACCTTCCTCAGGGGTCTTCTTAGGAAAGTACAGCTTTGCTTCTCTGATCATCAGAATTGGAT
CCTTCAGGTATTAGGTTGGTGCAAAAGTAAGTGGGTTTTTGGCATTCAAAGTAATGGCACCTGAAAGGG
TTGGTAAATTCAGAATATTATAAAATCAGTAAAGCTTAATCAAATTTGCCTAAATCTATCCTACAGAT
TAGTCTATGCATGGTTTATTAAACAACCTAACTGAAACACACATGCATATGTGTGAGTAAGCTGACATCA
GGGATCACCTTATCATGGAATCTAGGGAAGGTTGGCTCAATCTTCAATTTGTGAAGACCAATTCCCCT
ACCACGTCCATATATACATATTTCCAGGAGACTTGTCTTCCAGGGCTCTCTTTGGTTCTCAGCTCTTCC
TTTCTGAATTAGTGGGTCACTTTAACCTCCCTTGGGTACAGTCGTGTTCCACACTGGGTGGGTCCAGAG
GTAGAACTCATTGCCCTTCTTTGAATCCCACACAAGACCACCAACAAGGCATTGTAGTTGGTGGAAAAC
TCCATTGAAGAAAGGGTCTATATTGCAACAAACAAGCATCTAGAAATAGAATATTAAATATCCCTCCTCT
TAAAAATCCATTGTCCAATTCAGACTTCAGCATAATGTAATCTTCTGTCTTCTTTCTCTGTGTTTCCAT
CTTGAGAGCCATCCTATTATCTGTGTCTTCTTTGTTGTCTTAGGAAGAATATTTGGCTTATCCTTTG
TTTTGTTCTCTCCTTCCCGGACCTATTATGGTAAATGTGGAATTTGCAGATAGGCTTATTTGCGCTCCCC
AGCCTGCTCCCTTAATGCTCTCTGGTAAGACACTTCTTTGAGTCTCCGAGGCGAGTTGCTGCCCCCAG
CACCTGCTCTTCCCCATCGCAACCCATGACAGTAAACGCACTGCACATACTTATCCCACAGACTGCTGTG
AGAACTAGATGGAGGCTATGTGTGAAGCTGCAAGCTCTTGGTAAAGTGCTACAGAAATTGGTAGACACTG
TTACTATGATAAGATGTTTCAGAAAATAATGGATCGATTAAAGTTTCACTTATCTATTAAAGATAAAAAA
CTCTATGATTGAGACCTTTTTGGAATATTGGAAAATATTTTTGTGTGCTTATTAGCATACTGATATGTTT
CAGTACACATTTTCATGGATTTATGGCTAAGGATGTTACTTTCAAGAAGGTAAGTATACATCGCTCTCTAC
TAGCATGCTGTTCTGTTCCCTGAGAAATAGTGGCTGGGCGAAGGGTATGCAAAACATTTCTTAATATCTCAT
CCAATACCATTTTCCCACTACTAATTATTCAACACATGGAAATGTAGGTCAAAGCATTAAGAAAAAAC
TAGAACAGCAATACCTTGGTGGTTGGCAGGTGTTTATTTAAATATTTACGTTTTAGCCTTATTTTTTAA
TACTTCTTTTTTCATATATATTAGATATTTAACTAAAAGAAAATAATAATCATTCTCATGGAATACTTTAAA
ATAGTAGAAACAATCATGAATAGAAATGAAGATTTAGGCCTATACTACCCTAGGCTCTGTCAATTCTTATT
CCTAACCATTTGCATAGGAAATTTAGATTACCCACTTCTCTTTCTTAGAATAAGATTCACAGGTTTTTG
GGCATATTTCCATTGCATGCCCTGACTGGGGAGGTGTTCAAATCCCTGCTTTTCTACTCCTCAGCCCTGTG
ACCCTGAGCAATTTCTGTGGCTTGGTTTTCTCATCTGTAAATAGGATATTAATAGAACATATCCCTTTA
ACGTTGCAGTGATCACATTAATTAGTTGATGCAAAACAGTCCATCTAGAACAGTAAGCCCTCAATAAATG
CTAGCTATCATTATCATTTTCATAGCCAGCCCCACCATGGATGGGTGATGTGACCTGAAGCAAATTTAAAT
TCTCTGGATTTTCAGTTATCTCTCATTTGAAGGAATTAGGCTCCATCAGTGGTTCTCAAACCTCAAGTGAGTA

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TCAGAATCACAGGGAGGGTGTGTTATGACACTGAAGGCCGGGCCCCACCCCTCAGAATTTCTTATTCAGTA
GATCCAGGAGGGAGTGCAATAATTTGTATTTCTAAAAAGCTCCCAAGTGAAGTTGATGGCTGATCTGGAG
ACACACCTTGAAATTCCTCTGCTTACTCTAAACAAAACGTGCTTTTTTATCTTGAGTGCACATCAGAACCC
CTCTGGGGAGGTTAAAAGTCCCAGTGAAATCACAACCTCTGCAGATGGTAACCAGATCTTAGTGGCTTTT
AAAGTTCTCCAGGTGCTTCCATTGAGCAGCTAAGGTTGACAACACTTCTAACACCGCTTTCAGGTGAAAA
AGAACTATCATTCTAACTTAAATGAAGGAGAAAATGAATTCATCATTCTGACACCGTTATCTATTCTTTC
ATGCATGGGCTTATCCTATGAGAAATAAACATTTACTAAGGTGTATGCATGTTTTTAGAACATCCATTGG
GAAGCATGTTGTACAGCTTGTAGTAAAACAGCATGGTGCATGCTGAAACTGTTATAGGCTTTGCAAGTTA
TTTTTTATAAATTAGTTTTGCTGGTGTGCTGTTTGATTATTGGAGAGTGGTGTGAACATGTTTCTATGCA
TCCCAGGGGGTTGCTGTCACCTTTAAGGGGCCCTCTTAAATCCCAGCTCTTTCATTTACAAATTCTATGA
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TTCATAGAGCTTTGAGAATCATAACAGGTAAAGTTATTTTACGTAATTAGCACTCAAAGTGACCATTAAT
AATCTAACGTTTAAATATATTAATAGGCCAGATGCAGTGGCTCACACCTGTAATTTAGCACTTTGGG
AGGCTGAAGTGGGTGGATCACTTGAGGTGAGGGGTTCAAAGCCAGCCTGGCCAACATGGCGAAACTCCGT
CCCTACTAAAACGTAAAATTAGCTGGGCATAGTGGCGTGTGTCTGTAGTCCCAGCTATTCAGGAGGCT
GAGGCAGGAAAATCGCAGTGAGCCGAGATCACGCCACTGCACTCTAGCCTGGGTGACAGAGTGGGACTCC
ATCTCAAAAACAAACAAACAAACAAAATTAATAGTTTAAATATTTTTAATATATTTCAATATATAAAGA
TGTAATTTTTATTTTAAATATATTAATAAGTTTAAATACATAAAGTAAATATATAAAATTAAT
ATGTTAAATGTTTACTGAAAGTTTACATTTTTCTCTGTATTGCTAAGAGCAATTTATTGCCTTATATGT
TGTGTAATATCTAGAAAACACACCTATGTAATTTCCAAATTATAACCACCTTGGCTCCTGGACAAGTAGG
ACTGTGTCTGATTTTTTTTTTTTGCATCCTTGTCACTACCTGCCACTCTGAGATCACTTGTTGTCTTTCCA
TATATAATCACCTCTAGGTACACTTCTTTCATTATTTCTACGCATCCTCTCCACTTTGCTGCATTCTTGT
GTGCATTCTTTTCTCCACGTTGGAAAAGAAATATGCATATTGAGCGATTCCAACCCCCAAAGGCAAAAAT
TACTAGCCAGTGTTGAAAATGAAAGCAAGGAATTTTTTGGTTATTGTTGCTGTAACTTTTTGATGTGCGT
ACATATGTGCGTCTTTTTTTTTCCCCCTAGGGGTGGAATGGGGTGGTGTAGTCAGGGATTACTGACAGGA
CGGTGTTGCCTACTGTGTTGGAGAGACTAAGACTGGGGAAAGATTCTCCAAGGCTGGGAAATGCAGACGT
CCAGTCTTGGAAAACAGTTTGTCTGTTGCTCGTTATGTGAGAAGAGGAGTGTATTCCTGGAAGAAGGCCCA
CAAAATATACCCAGAGCCCAGGTGCCTTTCTAAGACGAATCAACATTCACCTCACAAGTTTCACTAATATA
TGACAGAAATACAAGAATGAACAAGACTCCTGACTTAAGCTTACAGCTGATGGGAACTTGGGAACTGGA
CAGAGAATTAATAACAGTGGTTAGGTACAACCTTACCTGCGCCAGAGGAGTGACGGAAGGCCTTGGAC
GGGGAGTGATGCCCTGGAGGATGACAGGGCGACAGGTAAGTTAGGGGGCTGGGAAGGGGAAGGGCGGCCCT
GTGGGTAAAGGGAAGGAGGTTAAAGTCAGCAGGGAAACAGGCAGTTCCCTGTTGCTGGAGCAAAGCGCGG
GGGTGTGGCTCTCCTGTCTCTGGCTTTGCTGTCAACAGGCGAGATTGGCAAGTAGGGCGACCAACCGGCC
TGGTTTGCTCGGGACCGGGGTTTCTTGAAGGTGGGACTTTCAATGCTAAAACTGGGACAGTCCTGGGCA
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AGGAGAGGGGAGATAGGATTTTTATGTTATAGATTGGAAGAAGACATCCTTGATGAAGGAGATGTTTTTA
CTTTGGAGAAGGACTGCCTCAGCCGCGAAAGACCAAGGGGTGGCACCACAGGGAGAAGTCTGCACTGCGC
TTGTGAGGACGGCCAGTGGGGGGCTGCTGAGCGCAGGGAGTCAGTCCTCGCAATGAAGATATAGTCTCGG
GGAGATAATGCTGGAATCGATGGAAGAAGTGAACAGGACACAAATTTAGTGGAATTTCTTTACAATGT
GTGCTTCTTGTCAACAGTTCGTTAACCATGATAAAAACGGTTATGTTGTTACATTCATCAAGATCCAAAT
TTTCTACCATTTTAAGATGTCTATCAGTCACAATGATGATCACTGAAGACCGAACGAGATCATTTTCTCT
AAAAATTATGTTACATTTATCCATAATGGCATCAGTGTCTGTTACACGTTTGCTTTAATTTTGAGGTCAA
ATACGACATTTGTAAATCTAGCACTTCATGTGATTCTGTAAGCACTAAACAGCTAAACATATTTACTTCT
TTTTTTTGAATCAATTAGAACAGTGCTGTACAATAGAAAAATAGAACAGTGCTGTACAATGGAAACAGTG
CTGTACAACAGAAATCTGTGAGCCACACGTGTCGTTTAAACTTTTCTAGTAATCACATTTAAATTTGTA
AAGAAGCCAATAAAAGTAATTTTAATAATATATTTGTTTGACATAATATAGCTAAATATCAATTTTGAC
ATGTTCTAAATATAACAATTATTAATGAAAAATATTACATTTCTTTGGCTTTGTACTAAACATTTGAAAT
GTGGTGTACGTTTTTCACTTATAGCACACGCAATTCAGATGCTACATTTTTATTAGGAATATTTAATCTG
TAGATAGATATCGTAAAATTTACATTTGAAAAAATAGATTAGACACCTAAGTTGTTACAAGCATACTT
AAAAGTTTTCAATGACTGAATTGAGTATCAGTTTTAAAATTTAAATCAATGAAATTAATTTAAATGAAAT
GAAATTTTAGAACTATTCCTCAGTCACGCTGGCTACATTTCAAGTGCTTCATAGCCACATGAAAGCTGT
ATTGGACAGCAAAGAAGTAGAATATATTTGGAATAAAATTTTAAAGTGGACACATTGTGTTACTCTCGT
TAGCCATGCTATTGCTATTTTTTTTTTCTATAGCTAATTTAAACCTTAAGATCCAGTAGGTTCTCCACCTT
TTTTTAAAGCATTAGTTCCATGTGACCCCTGTAGATGGCAGCACTTTCTTCTTAAACTACATGGAGGAG
TTGCCTGGGCTTGTCACTCAGATTCTGGCACTTTTCATAGAAAGAGTCTGAATTATCTGGAAAATTCCTT
GGTAACATAGGTCAGAACTTTTTCAGCTCTATTGTTATTCTGCACAGATGGCTGTTGCTTATGAAAACAA
TCTCTCAGCCTCTAGTCCAGGATATTACTCATTCCCTCAGTTCAAGAACTCTAGGGTGAGAGGAGAAAGG
GGTTCAATTACAGAACTGTTATCAAAATGCGTTGGTTTATGCACATCCGTGTTTTGGACATGGTGATTCC
AAGAGACTCTTAATAAACTTTTCAAAGTAGATGAGAGACAGTTTTTCCCTCACATGCTGTGGCAATATT
AATCTATGTTTTCATGTTCCACTGGACTTTGTAATTGAATTTTAAAGGAATGCATACAGGGCTTCATATTT
ATATATAAAATATCCATATCCAGTGTTGAAAGAAATTAACAATAAAATATGTACCTGTATAAAATTTGTG
ATTTTTGAAGCACCCCTCTCTTCTCTTCGCAATTGCATTTGTGGTAGGAGAACATGAGACAAGGAACGAG
GTACTAAGGACAAAGAAGGAGCGATTAGAGGTGGATTTCCCTGAAGACCAACAACATTTTTGCATAGCTC
GTGAGGACTCTCTGATACTAACTCCAATAAATGATGGTTTGGTGTGTTTGATTGCTTTTGATTGACATTT
AAAAATTACAGGAGACTGAGATAGGAGGATTGCTTGAGCCTGGGAAGCGGAGGTTGCAGTGAGCCAAGAT
TGCACCACTGCACTCCAACCTGGGTGATCGAGTGAGACCCCATTTCAAACAAACAAAAAATAAAAAAT
AAAAAAAACAAATAAAAAATCACACGCTCTTTTTTCACTCAATCTGTTTTCCAAATAAAATATCAAGA
TTCTATTTGAATTTTAATAATGATTTTGCTGAGTTTATAGCTTGAATACTATGGCAAGTATAATGTCTA
AAATGCTGTGATTTTGACTTAAGAAAAAATTTACAGTTTTCTTAATATACTCTTAGTTCTTTTAACTC
TAATACATGAAATGGATTGCTAATGAGGGTAGGAAGGGGAAAGACTGGGGAGAAAAATAGCTAACTTTT

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CTAGCGATAGATACATGTCAGAAGCTGTAGTAGGTTCTTTTGCATGTGTTTACTTACATTACCTTCTGTA
ATCTGCATTGCAATTTTTTTCATAGACAAGGAAACCTAGACTTAGAGAAAGTACAATACCTGTCATCTCGTA
AATGACAGATATAGTTGAGCAAATCTACTGAAATGGTTTAGCTTCTTATCTTTCCAGACAACAGATAAGG
ACTTATTCTATATGAAGACATCTGAGAAATGAAAATATGGTTTCAGGTTTCATAGAATCTTTTACACCACG
TATTTCTGGTTCTCTTTCTTCTATTTCAGATCATTCTTTCATCTGTTTCTTTTGTCTTCTTTTCCAAAATG
TAGCAATTGCCCAAATTCAGTACTTGTCTCTCTTCTTAACAATCACATCCAATCCCATGGCCTCAACCA
TCTTCCCTTGCATATAATTTCCACATTTACAACCTTTATTCTCTTGATTACTCAGGATAAGATAAATTGCTG
AACAAATAACAGCATATATCTCAGCTTAAGAGAGTAAAAGTTTATTTTTCTCTCATGCAAATTCTATTGC
AGATATTCCCCACCTCCTTCCCTAGGTTGTCTCCTCAAATGCAGTGACTCAGGGAACCTCTCTTCTGTCT
TAACCTATTTTAGGTCTTAGACCCCTTTGGCAGTCTGGTGAAGCCAATAAATCTCCTCTCAGGACAGTTT
CTAAATGTGATAAAAGAAAAAAGATATAGTGACAGATCTAATAATTAAAATTCAAAGTTAATTTCAAA
TTAGTGATAGGTAAATATATTTCAAGATGTCTGCACTGAATACAGCGTGATAGGTAATATATATGATTTA
TCTTGGTGACAAAGACATTGGTATTGCTAACACTATTATAGCTGCCATCTGTATTACAAAGGGAGATGT
CAAATTCCAGTTAAAAGAAAGATTTTCTTAACCCAGTTTCATAGGACTTCTGAATGGTACAGATGCTAA
GGTCTAGTGGCTCCACAACCTACCAAAGCCTTCTTAGTGTTCTCTGCTGGATCTTATGCATCCAATTGACT
GACAAGCAAAGAACCTGCAGAATAATAGGAGACATTTGTTGGGTGGGGAGAGCAAACCTAGAAGGGGCAT
ATACCCCTTACAATTATAGCTCTATGCGCTAGAATTAGTTATATCATTCTCCTAGATATGAGGGGACTA
GGCACTGTACTTCAGCTGTGTGTCCAGGAAAAAGGTAAGGTATGGGGAATGTGGAGCAATAATTATTTGA
AGCAAGAATCACCAGTGGATGCTAAAATTCGTGAGGGAACAGGACCAGAAACAGGATATTTTTAAAGT
CTCCAAGTACCTCCACATAGGATACTTATTAATTGCAAAGGGAAAAATAGTAACTTTACAGAGAAGAAGAA
ATCTGGCAGACACTACCATATCCAAGTGATCAAAGGTGACATCAGTAGTGGGACACATTAACATCATGTG
CTTCTGATATGATACACAAAGGAGAAACAACCTCATTCTTGTGATGTTTCTGCCAAAAATCCATAACCTG
AAAGAAGCATCACAAAATCCCCAATTGAGGGGCATTCCACAAAATAGCTGGCTAGAACTCTTCAAAATTG
TCAAGGTGATGAACAGTTCCAGACCAAAGGAGGCTAAAAGAGACAGGATGCCTCAATGCAAGTATAATCC
TGAATTGGGTCTTGGGTGAGAAAATGGGCATTAGTAAGACAATTGGCAAAAATTTGAATAAGGTCAATAGA
TTTGAAAATAATACTGTACCTATGTGAATTTCTGACTTTGATCAAAGCACTGGGGTTAAGTTAAAACAT
AAGATGTTGTTTTTGGAAATACATGCTGCTATATGCAACTTACTCTCAAACATCTCAGAAAAAAAATAG
ATAAGTTCATAGATAGATAGATGACAGGATAATAAAGCAAGTGATGATAAAATGTTAGCATTGTTGGGAATG
TAGGTAAAAGTATATGGGAATATTTTTGTACCATTTTCTCAACCTTTCTTTAACTCGTAAATTACTTAAA
AGAAAAGCAATAACCCCTGGCTCTTATAAAACTAAGGAAAATGGTCCATCCTTTCTGTGCCTTGTGTTTT
CCTGCTGGTCAAAGAACCTTTGGTAATGACAATCTGAGTTGGTCACTGATATTCTAGTAAATTCAGAATA
TAACCTTCTGGGCTATGTAGAAAAATATAGCTCTTCATATTTTAATTCATTTTCTGACAGCACGTTTCT
GTGCTTTTATGTATGGATACTGCCTAGTAATGTGCACACCAGTCTGCAGATCCTGGAACATTTTATTAT
CTTGATATTGACTTACGTATTTAGGTAGATCTGAATAGCAGAATTGTGAGTCTTTCACCAAGACATTAT
CGGGAAATCTGGACTTGGAGTCTACTTCTGCCAGGCATCTCTCCACGCTGGCTTCTGGGCCACAGAAGA
AAAGATCTAATCAAACCTCATTATTAACAAAGGCTTATAATATTGAATAGCAGCTTCCAGGAATCTAAGA
AAATGTTCACTTTTATTTCTGACTAAGGAGGAACATTATAGTCTTTTATACCAAGTTAGAAGTGATGAC
TTGGTATTAACTTATTCTAATTCTCAATAGCCCTGATCTCGACTCTGACCACATGCGCGCACACCCTCC
CCCAACCCTGTAAGTGTGATTATGGCAAGGGGAAAGTTAAAGTGGAGTGAATGGTGAGTCGTGGAATGAC
AGAGAGCATTTAGCATTGTAATTGACAGAGTTGGTGATTGACTGAATGGACACTGAATATCTAGGCTAA
AAGTAATTGAATGTGGATGGTGTAGTGAGATGGAGAACACTAGCAGGAAGATAGACTGGGCTACGCAGGG
GCTAGATCATGTGTTCACTCTGGGATATACTAAGTTTGGAGTTTCTGTAAAATGTCCATGTGAAGATGTC
CAATTGGGAGTTGGATATTTATTTATGTTTCCATTCCCATCAATCGATAAGCTTCAAGGAAATAAGAGT
GTAAGATTTTTTTGAACAACAGGAAGGAAGATTGTAGTAAGATATGATGGCATAATGGTATATGGAAGA
GTTTTAAATAAAAGTTAGCCAGGCATGGTGGCACGCGTCTGCAGTCCCGGCTACTCGGGAACTGAGGCA
GGAGAATCGCTGAATCCGGGAGGTGAAGGTTGCAGTGAGCCAAGATCGCACCCTGCATTCCGGCCTGG
GCGACAGAGTGAGACTCCATCTCAAAAAAAAAAAAAAGGGATGAAGAGGGATGAGGAGAACTCAAGTTA
TATTAGCCTGAATGGAATAGATGAGTGGAGAGATGGGCATGATAGGTGAGTTAAGAAGGAAATCTTTTGC
CTCAGCAACCAACTCAGATGCTTTGTGAATCTAAATTATGTGTTGACATTCTAGTAGACCTAGACCTGGG
ATAATTCACCTTCAGCATTATGTAATCTTAATTTTTTCATTTATAAATAAGAAAAATATTATGCAATACTTGC
CATAGTTTTCTAAAAGCTGAACTCAGAATGTTAATGAAATTAATAAGGAAAGCTATTTTGCTTAGAAGA
TATTTTGTATATAAACATTTCTTAAATGAAGAGGCTCTAGAAATATTTATTTTATAGAATTTAAAATATAG
CCATCACTAATAAAGGCAGGCATAATTCCAACGATTTTCATAACACATCAGTTATTAAATCTAATTAATAT
ATAAATGTAACATAATGTAATTTAATATAACCCTAATTCATGTTTAACCAACTGAAGCTGGTTAAACT
ATGAAGAAGAATCTTCAAATTGACCATTTCTTTCCAAGCGGTAAAGGTGATACGGGATTTTGTCTATACA
TATAGAGCAAAGGAGAAATTAAGCCAAGATTTAGAAATTTTAGGCAAAAAGTGTATATAGTATCATTAAAGTG
GTTACATATGTAATTTTACTGTTATAAATATGACTGAGTCAATTTTTTTTTTCAAAGATTTTGTGACAATG
GGAGGCACAAGGAGTTTAGACAGATGAAGACTCTTCTAGAAATCTACCTAATCTATCACATTAGACCTG
GAGATAATTGGTTTGACAATTTAGTTGTTTCTCAGCAAAAAAATAAGAACTAAAAGTGTTCAGATGG
CAGAGAAAAAGTTTGAAGAGGAGAGAAAGAAGAACAAAAAGGAAACAGTAGACATATAAAGAA
AGCACCTAAACCAGTGAGATGCCCCAGCTATGCACCAGCAGCATGGTGGATTACAGTAGAGTTTTTCTAC
AGAATATTGTAAATCACTGGAAAATAGTGTCCAACCTTATTTGCTTAAATTTTTCAGTTAATGTGCTCCA
GCAGCATTCTGTAGACAACGACTCTCACTCTCCCTTATTATGGAGGCAGAGCTGTTTCTCTTTGTCCCG
TTCTCTAGCCTGTGATATACTTTTTTATTGCTCAAGAGCTATAGAATTGTATCCATGCCTATTGTTGTCCT
CCTGATGGGAATTCATGTAATTGAAAGCGTTTATCCTCTCTTAGTAGAAAAATTTGGGCACTTGGAGGCAA
TGAAAATCCCCACCTTTGTCCACGGCACTGGAAATACCTTTCAGTCTGCTTTGTTCTAAAGTTTCTACT
TTTCCCAGTATAACCTGTTGAAAATTTAGTCCCTTCATGAGAAATACGGCTGGAATTTCTTGTGGCAGGCT
GGCCGCCGGTGTTCATGTAGTTACACCTTTTGTGCTATTTTCAACCTGATCAAAAAATAAAATTGTATT
TTTTCAAAGAAACATGGAATGACATGAAGAAAGTCTTAATATATCATGGAGTGAAAAACAGCAAGTTG
CCATGCAAATGTCAAATAGATCCTATATTTTTAAATAAGCAACTGCATATGTATCATTTAAATATATATG
TTTAGATATTTGCTAAATTTATGAACCGCAGTTACCCCTGGGGAGTGAGGTTAGGAAAAGTAAAGTGAGAT

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TTTCACTTTTACATTATACTTTTACTTTACCCACTTCTGTATTGTTTGAATCTTTAAAATGAACAAGT
GTTATTTTGTAAATTAATAAACAACAACACTGACAAATAACTATGGGGAGTAAGAAATTACTTGGAATGGA
ATATGTTTAAATAATTAATTTGTTGATACACTGCTTGACTATTATTTCTTTTGCTAAATCAAACTCCC
CTGCTTTTCTCAGGAGGTTGTTTTGAAAAGAAGGGTAAATGTTTCTAATGAAATGAACAGCTCAACCTTC
CCACCTCCTGCCTAAATGCCTCATTTTGGTTTTGTTACTAACAATGCAACACGCAAGGCTTTATGGTAA
AGCAAGCAATGTGGGTTTCTAACAGGGCAGTACACACCCGTAGTTGCTGGGAAACCACTTTAGTAATGGT
GGATTTATTGAATTGGAACAGGAATGGAGATTTGGAACAACAGGAAGTGAGGTACCTGTAGGGGTCTCAG
TTGTCCTGGGCACTGTGACATGGCACCCAAATGTCATGCAAGAGTGGCCCTTCCAACATATGCACCAATC
TGAATCTCTCCAAAGTTTCTTGATTACACCATAAAACAATGAAGAGAACAGCATTGCCAATAACTTCAGT
AATAACTTTTGCATCATATTACAAAGGGTGGTGGGTGGCACTTTGTGTGGTCATGGGTATGTCCAAAAGA
AGGGAGTGGTGGCTAGACTCAGTTCTCCTTTAGATTTTAAAGGCAAAATTTAGCAAACCTCTATGGCAGATT
CTTCAACTATTGTGACAGACAGACATTGTCTACTTTTCTGGGGATTTATGATTGAGGCCCTTTTGAGGGG
AGCTTTGAGTGCAGTGAGGCCAGATAGAAGGGCCAAGAAGGATGGGAGCAGCTGCATGCTAGTGAGCAAT
TCAAAGTTGGATTGTGCTGACTGGAAAATCCCGTTAGCAAATCAACTATCACAGACTTCATATTCTTTT
CAGATGTGCAGCCTTTATAACATATTTGTAAATGCTAAAGGACTGCTCCACAGGGAGGTTACAAAGAGAA
AAGCTCTGGGTGGTTGTAAATGGACAAATTTGTAAAGCCTTACTAGTAGTCTTACCATTCTCTCAGCTC
ATAAAAAAGTCTCTCTTCAATTTGACTATGCCTCAAATCTACTGCTTCTTGGATTATTAAACACTCTTT
TCCTCCAGGATCTTAAATCTCTCTGTTATAAGTTGAATTTGTGTCCCCCTCAAAAATGATATGTTGAGGT
CTTAAACCCAGTATCCTAGAAATGTGGCCTTATTTGGAGGTGGGGTCTTTACAGGGTTAATGGAATTAAA
ACAAGGCCACTAGGGTTGGCCAGTCCTTTTTATAAGGAATCCAGTATGACTGGTGTCTTATTAAAGGG
AAAATTTGGACAGAGACACACATAGGGAGAAAAGACGTGATGATGAAGGCAGAGTGGGGGGTGATGCTT
CTATAAGCCAACGAACCCCAAGATTGCCAGCAAACCCCAAGAAGCTACAGAGAAGCATGCAACAGATTT
TCTATCACAGCCCTCAAACAGAACCAACCTGCCAATGCTTTGATTTTGGACTTTAGCCCCTGGAACTG
TGAGACAATACATTTTGTATGTTTAAAGCCACCCACTTTGCGGTGCTTTGTTCCAGCAACCTTGGGAAATG
ATTACACTTTCTCATCTGTGATCACAGTGAGGCCTTGTACAATCTTCACTCATTCCTTCTATAGAAAGC
TGAAAGCCTATGGACAAGGATAATTGCCTTGGCTGACGCATATGTTTGAAGGCAGCTGCTGGCAGGCAAC
CGGAGACTTTACCCTGGTCCCTAGTGGAGAGGAAGTCTATAGGAGGAGGCAGGGAGCCTTCTGGCTGGCA
ACCCAGTGACTCAGGTTGTTTTCTTACTCCAAGGATCTCTGTGCAAGTAGGAATCCTGACATCTTCTCTT
TTTCACTTGTTTATGAGACCTGCTTGTGTAGAGTAAAGAGCAGAACTTAAAGATGGAATCTAATCACC
TTGAAAGAATAATCTCTCATCTCTCTGGTGGCAAAGGATTGGGATGTGGAGGTTATAGTTGGAAAATTG
ATTCCTAGGTCAATGTCTGTGGGTGAATTTCTCTTTGAATTTGTATCAGCAATGTTATGGTGTTCGGTGG
CTTTCAACGAAATAAACACACCTGACATCCTTAGTAAAGAGAAAGCTTTCTGAAATAAGAGTGAGGGACA
GACTGGGACATGATGCTTTGCATGAAATAGGTGTTTCAAGTATTTGTAGAGTTGGAAGAAGTTAGATT
AAACAGGGCTATTGTATGGCACATTGTCTATTAGGGAGTTAGAGAGGGCTTCTGGAAAGGTTTGGTCAGTT
TTGACTTACCTTCCAATAAATTTGGACTATAATAACCATTTCACTAGTTTGTAAAAGGTACTGGCAACCA
AAGATGGGGAATGCCACTCAATCTCACTTGTCTACTTTCAAAGCTTGCTTTGGTCACATTGAAAGGTT
CCATTTGGTGAAGTATAGCATATCACAGAAAACAATGGAGTTTGGGAGTTCCGGGAACAAATGGTTGTTTT
GTGATAATGAATAACTTTGACATTTGTTTTGAAGTTAAGTTATGTTGTTTGAACCTTTCTGTCCCTGAAC
AAGGCATCGTATGCCAAGAACAGGTAACAGTTTCTGGATCACTGGGGACTCATTAGTCATGGATGGTTAG
TGGTACTACATTGTGGTCTTCCCTTCAATATTGAAAGCTGTAAGAAGCTTGTGACAAATTCCTTACCTTGGC
CCTCACACAGTACTGGTAGGGCTGGGATGTTATTGCTTTTGTCCACCAACTTCCAACGTAGAAAGTCTAG
GATGATCACAGCAGTTAGAGATGATCCATTTAGATAGTCTATATTAAGGGAAAGTATCCTTCATCCATGG
TGTTGAACATTTCGTAGGATTAAAATGAAAGAAGCCAAAACCTTTCTAGATCTTTATTGGTATATCAACAG
AATTAGCTGATTAGGTATGCAGAAAAAATTTGGGACTTGAAGACACCATTAAATAAAATAACTGTACATAA
CCATACATTAAATAACTGTAACACCATTATATAAATAACTAACTATAAATAAAGAGCTCTACATTCAAAC
TGCTTTTCACTGCATTTGTCAGATTTCACTTTTAAATATAATTTTAGTTGACTTATCCCTCATCTTACCTT
AAGAAGATAATGAGTTGAGGTGGATCTTGAGCCAGTGTTTAGTCCAATATAGCCCTTTGACTTGGGGAAA
GATCAAACCTCGAAATTTATATGCATGACTCCTCTCTGGGCAAGGACTGAAGTGGCAGGAGAGGTGAAAG
AAGGAATCAGGACAAAAAGTAGATGCTAAAAGGAAAAACAGTCTGTCCCGTGGAGAGGAAGTACCCAAAGA
AACAGAAGAACTCCATGATGGAGAGTAATACAAGTTGAATATCCCTTATCCAAAATGCTTGCAGCCAGAT
TGTTTTGGCTTTGGGATTATTTTCAAGATTTTTCATACCCGCTCAGTATCCCTAATCTGAAAA
TCCAAAATCTGAAATGCTTCAGTGAGCATTTTCTTTTCAAGTGTCTCTTGGCCCTCAAAAAGTTTTGGATT
TTGGAGCATTTTGAATTTTGGATTTTGGATTAGGGATACTCAACCTGTACTAGCGTGTTAAAACAGTCC
TGGCCAGGCGCGGTGGCTGACACCTGTAATCCAGCACTTTGGGAAGCCGAAGCGGGCGGATCACAAGAT
CAGAAGATCGAGACCATCCTGGCTAACACGGTGAAACCCCTGTCTCTACTAAAAATACAAAAAATTAGCT
GTGCCGTGGCGGGCGCCTGTAGTCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATGGCGTGAACCCGGGA
GGCGGAGCTTGCAAGTGAAGCGAGATCGCGCCACTGCACTCCAGCCTGGGTGACAAATCGAGACTCCGTCT
CAAAAAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA
GAGAAGCAGAATCTACAGAAGATATTGTTCAAGGCCTGCTATGCTAGGTCTCAGATAGCACCAGAAGTGG
GCAGGGCAAGAAACGTCAGGCCAGGGGTCTGGTTTAAACAGAAGAGGTGCTGAATTTTAGGATCTGAAT
AGCAAGGGTTGTGGTCAGGAAGTCAGTTTTCATGTAAGAATGAAGGTGAGCGGATCTTAAATCCCTGAAAG
GAGGCAGAGAGAAGAATATAGGAAATGGGTGGATAATTTTTGTTGCGAGTAAAAATGTTTCAAGGACTTTGG
AGGCAGGAAGAGCAGGTAAAGCAACTTCGAGGAAAGAGGCTGGGTGAGAGGGGATCTGAAAGCAGGAGTC
AGAAACATCCATTGGAGGCCTGGAGAACATAAATGGGAGGTGAATAGACTGGGGACATAGTGCCTGGGTG
GAAAGAAGCTGGCTCGAGTCCGAAACCACAGGCTGAAATATTAGGAAAAAGAGACCCAGGAATTCAGTTC
AGAATAGGAGGGATTTGTGGGGCAAGACCAGTGGTTCTTCCAGACATTTTATCAGAGATAACAAAGCAGA
GGCTGTCTGTTCTCTGCCCTTGGTGTGAGAAGAAAAGGACTGACAGGAGTGCTTGGCAGCTCAAGCCAGT
TATGGAGCTGTGGGTGCTAGTGGCTATTAACCTACCAGGGAATTAGCTCTGCTGAATGAGTCTCACGCAG
AGGCAGGGATAGAACGTTGCATTGAGAAGACTGGCCACGGAGGCCGGCTGGGGTGGCTCACGCCTGTAAT
CCCAGCACTTTGGGAGACCAAGGCAGGAGGATCATCTGAGGTGAGGAGTTCGAGATCAGCCTGGTCAACA
TGGTGAAACCATGCCTCTACTAAAAATACAAAAATTAGCCAGGCTTGGTGGCGGGTGCCTGTAATCCCAA

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CTACTTTAGAGGATGAGAGAGGAGAATCGCTTGAACCCGGGAGGCAGAGGTTGCAGAGAGCCGAGATCAC
GCCACTGCACTCCAGCCTGGGCAACAAAGAGTGAACTCCGTCTTAAAAAAAAAAAAAAAAAGGAAAAGAAAA
GAAAAGAAGAGTGGCCACAGATTGGCTTGGCTGGAGAAGGCATTTTTTTATAGGGAGATATACGTGAGTT
TGACGGGATGGGCTAGCAGGCGGACATTGAGGTTTTATGGGATAGGCAAAAAGGTACAAATGGTATTTGG
GGGGATGTGAATGGCATCTGAGAAAGGTTGATCCAGGCTTGTGTGGAAGCTGGCTCTGAGCATAAAATGC
CAGAGAAAGGCTTGTACAACTCTGAGGCTTTTTCTTTCTTTCTTTCTTTCTTTTGTAGACAGAGT
CTTGCTCTTGTGCGCCAGCCTAGAGTGTAGTAGTGTGATCTCGGCTCACTGCAACCTCTGCCTCCCTGGT
TCAAGCGATTCTCCTGCCTCACCTCCTGATTACCTGGGATTACAGGCACCTGCCACCAAGCCTGGCTAA
TTTTTTGTATTTTGTAGTAGAGACACGGTTTTACCATGTTGCCAGGGTGGTCTTGAATTCCTGACCTCAA
GTGATCTGCCCACCTCAGCCTCCCAAAGTGCTGAGATTACAGGTGTGAGCCACCGCACCTGGCCTATTTT
CTATTTTTTAACCAGTCCCAAGTAAGGGTATTGGTTAGGGTTGAGGCAATGGAAATCTGAAAGAAAGGGT
GAGTTAGGTATTTCACTGGACACATGTGGAGAATGTTGGTGATTAAATGCAGAGGGAATTGTGGTTAAAA
AGGTTAATGTAAGAAGGGTCATGTGGGGACTGGAAATCACAATAGAGAAACAGAGGCCAGAATGCTGAAC
TCATAGGAAGTGGGTGACCATGGGTGATTAAAAATGTACAATAGGGCTGGGTATAGTGGCTCATGCCTGTA
ATCCTAGCACTTTGGGGGACTGAGGCAGTTGGATCACCTGAGGTGAGGAGTTCGAGACCAGCGTGGCCAA
CATGGGGAAATCCCAACCTACTAAAAATACAAAAATTAGCCGGGCACGGTGGTGCATGCCTGTAACCCC
AGCTACGTGGGAGGCTGAGGCAGGAGAATCGCTTGAACCCAGGAGGCAGAGGGTGCAGTGAGCCGAGACT
GCGCCACTGCACTTCAGCCTGGGGAACAAGAGCGAAACTCTGTCTCAAAAAATAAATAAATAAATAA
AAATAAAAAATTAATAATGTACAATAGAGTGTGTAACCAGGAAATCTACATCTTGACACTTAACTACCC
AAGACGCAATTGGTTCCTCGTCTGATTTTTTAAAGAAAGTTTCCACTTTCTTCGGAAAATCACGACAGTCC
TTGTTCTCAATTTCTTTGTTTTTAAAGAGAGAAATGTTGTATGATTTCACTTATATAAACTACCTAGAAT
AGGCAAATTCACAGGGATAGAAAGGTGGAATGGAGGTGACCAAAGGTGGAAGGAAGGAGGATTGTTCAA
TGGGTACAACATTTCTGTTTGGGATGATGAAGAATTTCTGGAGATGGACAATGGTGATGGCTGCACAACA
CTGGGAATGTGCTTAATGCCATTACTTAAAAATGGCTAAAAATCATGCATTTTATGTTATGTATATTTAC
AACTTTTTTTTTTTTTTTTGTAGACAGTGTCTTGCTCTGTCTCATCCAGGCTGGATGGCGGTGGCATGATCTC
GGCTCATTGCAACCTCCACCTCCCAGGTTCTAGCAATGCTCCTGCCTCAGCCTCCCCAGTAGCTGGGATT
ACAGGTGTGTGCCACCATGCCTGGCTAATTTTTGTATTTTGTAGTAGAGATGGGGTTTTGCCATGTTGGCC
AGGCTGGTCTCGAACTCCTAACCTCAAGTGATCTGCCACCTCAGCCTCCCAAAGTGCTGGGATTACAGG
TGTGAGCCACCATACTGCCATATTTACAACTTTTTAAATCATAGGAAAGAAACCCTAATGCTTTGACAA
CTGTGAGATTTTGAATCTCAACTGTGAGATTATGGTTTTGTGGAAATTTCTTTATGTGATTAAAAAGATA
CTTTTTTTGCCAAAAAATTTGTTTTCGCTGTCTGCAAGTTCTCCTGGGTAAGCACCTTTGGTCTTGTTT
TGTGCATAGCATAACAGAGCAGCAATTGTATATTGCTAAAGAAAGCCTGTTTTTTTTTTCTTGTTAATTTA
TTTAAGTTTCCTGTAGATTCTGGATATTACCCTTTGTGATGGATGGATTACAAAATTTTCTCCCATT
CTGTAGGTTGCCTGTTCACTCTGATGATAGTTTCTTTGTGTGTCAGAGCTCTTTAGTTTAATTAGATC
CCATTTGTCAATTTTGGCTTTTGTGGCATTGCTTTTGTGTTTTAGTCATGAAGTCTTTGCCTATGCTTA
TGTCCTGAATGGTATTGCCTAGGTTTTCTTAGGGTTTTATGGTTTTAGGTCTTATGTTAAATCTTT
AATCTGTCTTGAGTTAATTTTTGTATAAGGTATAAGGAAGGGTCCAGTTTCAGTTTTCTGCATATGGCT
AGCCAGTTTTCCCAATACCATTTATTAACGGGGAATCCTTTCCCATAAGGATATGAACAGACACTTTT
CAAAAGAAGACATTTATGCAGCCAACAACATATGAAAAAACCTCATTATCACTGGTCATTAGAGAAAT
GAAAATCAAAACCACAATGAGATACTATCTCACACTAGTCAGAATGGTTGTTATTAAGGTAAGGTAATAT
AACAGGTACTGGTGAAGTTGCAGAGAAATAGGAACACATATACTGTTGGTGGGAGTGTAATTTATTTCAA
CCATTGTGGAAGACAGTGTGGCGATTCTCAAGGATCTAGAACTAGAAATGCTATTTGACCCAGCAATCC
CATTACTGGGTATATACCCAAAGGATTATAAATCATTCTACTATAAAGACACATGCACACGTATGTTTAT
TGCAGCACTATTACAAATAGCAAAGACTTGAACCAACCCAAATGTCCATCAATGTTTGACCGAATAAAG
AAAATGTGGCGCGTGAACCCGGGAGGCGGAGCTTGCAGTGAGCCGAGATCCCGCCACTGCACTCCACCCT
GGGCGACAGAGCGAGACTCCGTCTCAAAAAAAAAAAAAAAAAAAGGAAATGTGGCACATATACACCAT
GGAATACTATGCAGCCATAAAAAAGAAATGAGTTTATGTCTTTGCAGGGACATGGATGAAGCTGGAAACC
ATCATTCTCAGCAAACTAACACAGAAACAGAAACCAAACTGCATGTTCTCACTCACAAAGTGGGTGAG
TTCCATAATGAGTGGGTGAGTCCACAAGTTCCACAAGTTTCCACAAGTGGGTGAGTTCCACAAGTTCTAT
AATGAGAACATATTTGCACAGGGAGGGGAACATCACACACCAGGGCCTGTGCGGGGGGTGGGGGTCAAGG
GGAAGAATAGCATTAGGAGAAATATCTAATGTAGATGACGAGTTGATGGGTGCAGCAAACCACCATGACA
CATGTATACCTATGTAACGAACCTGCACATTCTGCACATGTATCCCAGAACTTAAGGTATAATAAAAAAG
AAAAAGAAAAAGAAAAAAACCTGCCTTTTGCTTTGGCAGTCATCATTCTTCCATCTTCTCATGTTTT
CTTATTTAACTCAGTAGTTCTCAATTGACAGCACAAAAGAATTACTCAGGAGAGTTCAAAAAACACCTAT
GGCTGACTCCCCCAAGATTCTGATTTCTTGGTGTGGGGTAGCCTGGGCATGAATATTATTTAAAAACTC
CTCTCATGATTCTAAGGTGGTAGCCAGGATTGAAAAATGCTGGACTTTCAAGTTTTTGTCTTTCTTTT
TCTTCCAAAAAGGTGAAGCCCTGACTTGGGAAGAATTCAAATGCGAGTTAGGCTTATGTTTGATGTCACT
GATTCCTAAAGATCAGTCCATTGATTCTCCTCATTCTCAGGAGAGCATTTGGTGTCAAATCACAGCCCA
AACTCTTACCCTAGTTCAGCATCTAATCTCTTCAGTCTGAACTGTTTTTGTCACTCTGTCCATATA
ATCACAGTGTGTAGAAATTTCCAGCTAAACATTGTCTCAAACTTTTTGTACCTAGTTTTAAATCAAAT
GTAGTACAAAATTATTAATAACAACGGGCTTTAAATATTGAGATTTTGGTGATCTTTTTTGTAGAATGC
AAATACTAATGAACTAATTTTTTCTTTTGCTTTCAAATATAATTTCTTCTAAACTTCTTTCAAAGT
AGAATTTCAATAGTGAAGAACCCTGAAGATTATTTTAATAGAATTCCTTAATTTTAGAGATGAGGAAA
CTGAGACTCAAATATATTAATTAATTTATCTAAGTGTCTTAGTCCATTTTGTGCTGCTATAAGAGAGCAT
ACTTGAGACTGGGTAATTTATATTGAACAGAAATTTATTGGCTCACGATTCTGGAGGTTGGAAAGTCTGA
TATCAAGGTGCTGGCATCTGGCAAGGGCCTTCTGGATGTGTCTACATGGTGGAAGGCGGAAGGGCCAAGA
GGTAAATGTGGCTGAATTTGTGCTTCTATTATGGCATGAATCCCATCCATGAAGGTGGAGGCTCATGG
CCTAATCATTTCTCACAGGCACCACCTTTTAATACTGTTACAATGGCAATTACATTTCAACATGAGCTTT
GGAGGAGACAAAAATTCAAACCATAGCACTGAAGTTATACAATACTAGTTAAGAAGAGAGAACCTGAGACTG
AAACCTGATGTTTTGACTCCCAATCCAGAATGTTTGATCCCCTACATCCCACCGCTTCGCTGTTTCCAT
TCCTTTCTCCTGTTTTTCTATCTATTTTCACTAAGAGGGCAAGATATTTGCTAACTGCTACACACCCAAAT

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GTATACCAGGCAGGTCAGAATGACTCTAACATTTTATTTAATGAGGCAGAATAAAATATCTTCCTACTAA
ACAGTGACAAGTGTTGTTTTAAAAAAGTATTGTGCACAAAAAATACTACTTTTCAGCATAGGCTA
TATTTTACAAAATAAATTTACAGTGGGAACACAGAGCTATTTAGAGTGTCTGGTATAAATGATTTTATT
GTTACTCTGCTTTTTTGAAAAAGAAGTGTGTGAAGCAGAGGTAAGTAGTACTGAGGAAATAATAACTAAA
ATACTAAGGACGAGATGCACATGGGAAAAGTTCTTCATTAAGTGTAACTGTAACGTGGTGGAGAAATGTATGTTCT
AGACAGGTCAATCATGGAATTAGAAAAAGTTGGGATCTTGGATTGTTGAGTTCAAATCCTTAGTTTTAAA
ACTGAAGACTTCAAATTTTGATTGACTACAGATCAATCAACAACCTGTTGGAGTTGGAACTTGAATCTG
ATTCTCCATCCTTGTTTGGGATATGAAAAAAGGAAGACATTTAAGAGTATTTTTTTATTTATGAAACTA
ATGTATCATCATGTAAAAATATGAAATAGAAAGTGTTAAAAATTATAAAGAAACAAGAATGTGTTTTTAT
AATCTCATTTTCTTACTTTACGTAAGATGGTAAGTCTATTTTGGAATTAATTGTTTTTAAGAATAGTATT
ATAATTCAATGTTAGATAAAGATTTATTTAACCCTTTCCCCTTTAACAAGTGTGTTGGGTTTTTTAAGTTT
GCTTCCAAGTTTTCGGTAAATGATGCTTCAATGGATATCTCTGTTTGTATCTTAGTATGTATCTTAGAT
TAATTCCTCAAGATAAATATTTAAAGGTATGGTATATGTAATATTCTTGATACATACTTCCATATTTCCC
TCCAGAAATGTGTGCACCTATTTAAATGTGTGTGGAGGTGCACATTTAACATTCCCTCATTATTCTGGCT
GCCTTCTATAAATCAAGCTACCCTGGTATTATGGCTCTCCTCCAGAAATCTAATCATTTAAACACATGAA
GTGAATGTGTGAATGGACAATTAAGTGTGGCCAAATGTGGAAAAATGTTAAGTGTAAATCAAAGGCAAC
TGAAACGTTAAATACACCTTCCATTCTCCGCCACATCCATGCTCTTTCCCATACTCCACATCTGCTCAC
TAAAATTGGAAATAAACTGTAATGAACCAGAAATGTCTGACTTACTGGTGTGTTTAGGTGAGTTTTATTG
AAACACTGACTGACCCCACTCTAATACCATCACCTTAATGTTTGTATCTTAGATTAATTCCTCAAGA
TAAATATTTAAACGTATGGTATATGTAATATTATTGATACATACTTCCATAGTTCCAGCAACCACTTGTC
ATCCTGTGTCCCCAAGGACACTGCAATGACTGTACAGTGACTTGTGCTCGGTTGAGGAGCAAGTGGTG
GCTGAAATCCAGCCCCAGTCAGCTCCCCAAACCAACCACTTTTACACAGTGTCTATGTGTAAAGTTGGT
TTGCTTTGGGGAGATTGATCCCCATAAGGGATCAGCACCAGCCCTGTGTCTATCTCTTCTCCTGGGG
AGATGTTGGCTATTTTGCTAGCTGGAGAAGGGCACGCAATTTGTTGTGAGGAGACAGGTTCTTAAGTTCC
ATTGGTACATGCAGGGCAAGACAGGCAGAGGGAATCTGTCACTGCTACAGGCACCTTCATAAGCCCAGGTA
TAGACGATAATTGAAATGGATTGATTTTCATAGTAGTCTAATACAGAGTGGTGCTACAATCTCTGTATGTG
CCTATTTAGAAAATAACTTCATATTTAATTCCTTCACTTTACATAAAAGATATGTGTATTAAATACACCTT
TTATTTTAGAACAGTTTTAGATTTTAGATTTAAATTGGGAAGACAGTAGAGATTTCTATCTAACCACACA
CCCAGCTCCCGTATTAGTAACTAACATCTTGCATTAGTATGGTATATTACAATTAATGAACCAATACTGT
TATTTTATTATTAACCTTAATTCATGCTTTATTCCAGTTCCTTAGTTTCTACCCAATGTCCGTTTTCTAT
TCCAGTATCCCATCCAGAATACCACATTACATTCTGTTGCCATGAGTTTCTCAGATTTTCCATGTTTTTG
ATGACCTTGACAGTTTTTGAGGAATACTGGTCAAGCGTTTTGTAGAATGTACCTCAACTGAGATTTGTCTC
ATGTTTTTCTCATGATTAACCTGGTATTACAGGTGTTTTGAGAGGAAGACCACAGAAATGAAATGCCATT
CTTATTACATCATATCAAGCATATATTCTAACAATATGATTTATGACAATAATGTTGACCTTGGCCAAC
TGGCTGGGGTAGTATTTGTCTAGTTTCTCCTCTGTAAAGTCCCTTACCCCTTTCCACACTGTACTC
TTTGAAGGAAGTCACTCTGCACAGCTCACAATGAAGGAGTGGGGAGCTATGCTTCCCTCTTTGAGAGTT
GTGTATGTACACAAATTATTTGGAATCTTCTGCATGGGAGATTTGTCTATTCTCCCTATTTATTTATT
TATTGAATTATTTATATCAGTATAGCTTCATGGATATTTATTTTAGACTTTGGGCTAAAAACAATACTA
CTTTATTTTATTGTTCAAATTGTTCCAGCTTCTAGAAGTTATATTTTATAGAGAAGATATGTTTTTAAA
TATAAAACACTTTAAAAAATGAAGTCAACAGAATAAAATATTTTAAATTTTCCCTTAATGGGTGTTCT
TTGTACCATGTTTCCATCAAATAACATTCTGATTGAAATCTAAAAATTAGTGTGTTGATTTAAGTGCTA
AGATCAGAGAAAAAGTCACAAGTTTCCCAGACTGAGTTAGGCAACATGTGACTCAGAGTTATAAGGAATA
CCTTTCCCATTCTGCAATTGCAACCAGTGTTACAGTTACAGAAGTGACTAGTGTAACCTCCCTCCTGGG
TTCCAGCTGCCAGGACTTACTTTAGTTCTTTTAAACATATCCTTCCCACCAAGATAAGTTTTTTGAACAG
TTTCCCCTGAGTGCTCCCCCACTTGTGCCTTTTATTCATGTCTTTATAATATTTATTGGTTG
GCTGGTGCAATTGCAGAGGTTGGCAAGTCTGAAATTTGTAGAGCAGGCCAGCAGGCTGGAACTCAGGCA
GGAGTTAATGCTACATTCTAGGGACATTTTTTCTTCTCTGGAACTTCAGTTTTTGCTGACAAGCTTTT
CAACTGATTGGGCAAGGCCACCCATGTTATGAGGGGAACTGTACAATCAGTTGTCAATTAAGCCAATC
AGTCAACTGATGGTTGGTGTCAACCATATCTTCAGAATACCTTCACTACAACATCTAGACTCATGTTTGA
TTAAATAACTGGGTGCCATAACCTTGGCAAGTTGACACCTGAAATTTGGCCATCACAGTGACCAAGACAGA
AAGTGTAATGAGCAGGAAAGCACCCAGTGACAGGACAGTGAAAGATGAGCCTGGAGACGGGGAGTGGGA
GGAGTGCTTTGACAGAATGGTCAAGAGAGATGGCATCTGGGTGGAGATATGAAAAGATGTAAAAGAAGGG
AAGGAACCAGTTCTGCCAAGAATTTATACTTCTACAATTTCCAGATGATATTGATGCTGTTGCCCTGGA
GCCCATACTTTGAGAACCACAGAGTAAGGGTATACCTCTGTTATTATCCAATGAATCCTGAGAAAGCCCA
TTAATATCTCAGTGTGACCATTTTTTCTCAAAATTCCTACCTCACATGCTCTGAGGGGCTGGCAGCTTTT
CTGGGAAGGTAAATCTCAAGAGGGAGGCTTTGAATGATTCCAGGACAAAGTGAAGATAACATACTACCG
CAGGTAAAGTCTAGGTTTACTTGGAGGTGGCTCAAAACACAAATCCTGTCAATTTTAAATGACACATGAGG
CCATGACTCTGGGTCGTCACTCTGGGCAAGCCATTGAACCCATTAGAACCTCAGTTTTCCCATCTGTACA
AAAAGAGGTGATAATGGGTAAGCAATCCTGGACTGCATTGTGGTAGTGCCATCAAGCAATGAGATTTGTC
AGGAAGGAAGTGTGATTCAAGTACAGGCACCTTTGTTATCTGATGCCGTGTGTGTTGAGTGTGAAGGAGGG
TTAATTATTCCTCTATTCTATGTCCTTTCTATTCTCAAAATTTCTTATGTGGGAGGAAAATCTTGGTGCGG
TAAAGATCACAGCCACCCTGGGGTCAGACAGAGGACTGTGTCAAGCTTGGTAAGCGTCACCATTACAGGTG
AGTGGGAAAGAGACTGAACCCATTAAACCAGATGACCTCCAAGGCCCTGCCCGCCCCAACATCTGAGGG
CTGCCTGGCTTGTCTGCACAGGGTGCTCACAGTACTCCTGACTTTGACATAATTTTAAACATTAAAGTCAC
AAGGATGCCCTGGATCACAACCTGCTGGAGAAGAGATGGTAGTGGGATTTGTTTCCCAGGAGACTTTCTGA
TTCTAGTGGGGCCAGGACCAACCTCCAAAATAAGAGGTCTTTGCAACTGCTGCGAGCCTCCTGGCACCTC
TACCCTCTAGCGAGAGGCTGCCTCTCCTGCCCCACCCCGGTTTCAAGCACGCTGCAGGGCAGGAACCTCAC
TGTGCTGGCAAAGGTGAGCTGGAGACCTGGCACGGCATAAAGCTTTTTTAACTGACCTTTTTTAATTCA
TCTTCCCTGGACTTAATCTAGAGAGTCATTGATGAAACAAACATGCCATTTTCTCCCGATTTACAGCTTT
TAAATGTCAACAACAAACAAACGTTTATATACACAAATGTTGCTGAAGGAGACTTTTGGCTTTAGACAAG
GGTAAAAACTGAACCTCTTAGTGTGACTTTGGTTGATTTTTTAAAAAATCTGTAATTTGACATATAAAGA

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ATTATTAAGACTTTTTTTTTTTTTCTGGTAGGCATTGAATGTGTCTTGTGAAAAGAAAAAATATGCTC
AGTTTCAATCTTCTGTCTATGGGTAGCTAGTTATCCCAGCCTTAGTTATTGAATAAGGAGTCTTTTCACC
ATTGCTTATTTTATTTTACTTTTTGAGATGGGGTCTTGTCTGTACCCAGGCTGGAGTGCAGTGGCAGC
ATTTTGGCTCACTGCAACCTCCGCCTCCCAGGTTCAAGCGATTCCCCTGCCTCAGTCTCCAAGTAGTTT
GGATTACACATGTGCACCACCACACCTGGCTAATTTTTGTATTTTGATAGAGACAGGGTTTCACCAAGTT
GGCCAGGCTGGTCGTGAACCTCTGACCTCAGTTGATCCACCCCACTTGGCTCCCAAAGTACTGGGATTA
CAGGCATGAGCCACCGTGCCTGGCTGCATTGCTTATTTTTGTGAGCTTTGTCAAAGATCAGATAGTTGTA
GGTGTGTGGTCTTATTTCTGGGCTCTCTATTCTGTTCCATCAGTCTATGTGTCTGTTTGTGTATCAGTGC
CATGTTGTTTTGTTTATTGTAGCCCTGTAGTATGGTTTGAAGTTGGATAACATGATGCTTCCAGCTTTGT
TCTTTTTGCTTAGATTGTCTTGGCTATTTGGGATCTTTTTTTGGTTCCATATGAATTTTAAAATAGTTTT
TTTCTAGTTCTGTGAAGTATGTCACTGGTAGTTTGATAGGAATAGCATTGAATCTATAAGTTGCTTTGAG
CAGTATGGCCCTTTTATTGATATTGATTCTTCTTATTCATGAGCATGGAATGTTTTTCCATTTGTTTGT
GTCATCTCTGATTATTTGAGCAGGGTTTTGTAGTTCTTCTGTAGAGAATTCACCTGCCGGGTAGCT
GTATTCCTAGGTGTTTTATTTCTTTTGTGGCAATTGTGAATGGGATTGTGTTCTGATTTGGCTCTTTCG
TTGACTATTTTTGGTGTATAGGAAGGCTAAGTGATTTCTGTATGTTGATTTTGTGTCCTGAGAGTTTGT
GAAGTTGTTTATCAGCTGAAGGAGCTTTTGGGCCAACATATGGGGTTTTCTAAATATAGGGACATGTCA
TCTGCAAATAGGGATAGTTTGAATACCTCTCTTCTATTTGGATGTGCTATATTTCTTTCTCTTGCCTGA
TTGCTCTGGCCAGGACTTCTAATACTATGTTGAATAGGAGTGGTGAAGACGGCATCATTTTCTTGTAAAC
TGGACCCCTTCTTACACCATATATAAAACTAATCAAGATGGATTAAAGACTTAAATGAAAAGCCCAA
AACTCTAAGAACCCTGGAAGACTACTGAGGCAATACCATCTTAGACATAGGAATGGGCAAAAATTTTCATG
ATGAAGATGACAAAAGCAATTGCAACAAAAGCAGAAATTGAGAAATGAGATCTAATTATACTAAAGAGCT
TCTATATAACAAATAAACTATCAACAGAGTAAACAGACAACCTACAGAATGGGAGAAAATTTTTGCAAA
CTATGCGTCTAACCAAGGTCTACTATCCAGCATCTATAAGGAACCTTAAATTTACAAGAAAAAACACCT
CATTAAGAGCAGGCAAAGGGCATGAACAGACACTTTTCAACAGAAGACATACATGTGGCCAACAAGCAT
ATGAAAAAGCTCAGCATCACTGATCATTAGAGAAAATGCAAATCAAACCACAATGAGATACCATCTCAC
ACCAATCAGAGTGGTTGTTATTAAGAAAGTCAAAATATAATAGATGCTGGTGAAGTTGCAGAGAAATGGGA
ACACTTATATAATGTTGGTGGGAGTGTAATTAGTTCAATCATTGTGAAAACAGTATGATGATTCCTCA
AAGACCTAAAAATACAACCTACCATTCAACCTAGCAATTCATGACTGGGTATATACCCAAATGGATATAA
ATTGTTCTATCATAACGACACATACATGCATATGTTCAATTGCAGCACTATTACAAATAGCAAAGACATGG
AATCAATCTAAATGCCCATTGATGGTAGACTGGATAAAGAAAATGTGGTACATATACATGATAGAATACT
ATGCAGCCACCAAAAAGAAATGAGATCATGTCTTTTTCAGGAACATGGAAGGAGCTGGAGGCCATTATCCT
TAGCAAATAATGCAGGAACAGAAAACCTAATACTGCATGTTCTCACTTGTAAAGTGGGAGCTACATGATT
AGAATTCATGGACACATAGAGAGGAATAACAGACACTGGGGCTATCAGAGGGTGGAGGGTGAAGGAGG
GAGAGGATCAGGAAAAATAACTAATGGGTACTAGGCTTAATACCTGGGTGATGAAATAATCTGTACAACA
AACCCCATGACACAAGTTTACCTATGAAACAAACCTGCACGTGTACCCCTGAACTTAAATAAAAGTTA
AAAAAAACCCCAAAGGTGAAGTGTGGTGAGGATGTGGAGAAAAGGGAACCCCTATTACACAATTAGT
GGGAATGTAAATTAGTGCAGCCATTTTGGAAAATAGCCAAGGAAAATTTTTTTATTGAGTCAGATGATGT
TACCTTACAGCAATAGCTTCCAAAGGGGATGTCTGAATAGTAGAACTTCTCTTTACATTTTCAAACCTC
TTTTTACTTTCTGATTTTGAATTTTCAATGAACATGTATCAATACAATAGCACACTATGTATTTTATAA
ATGAACAAATATGGGAAAAATAAGATATGTTCACTTTCTGGCTGACCCTAGTTAGTCTAAACTATCAGT
TATAGGATCCATTTGTTCTAAATATTGAAGGCATTGTTGGGGCAGTGGGGAGGGTGAATGATAGACGCA
AATTCCTTGAAGGAATAGAAATGTGACTACTATGCTGAAAAGCAGGACCCATGGAGTATAAATAGAGTAT
TCACTGTGCTTTTACATTTGTTTCCCTGGAGGAAACGTAACAAATCTCAAGACTTTCTGGTCATTTCT
AAGTCATAAACGGCCACTAGTCACTAATTTATATAACCAGCCCAATGTAAATATCAAACGTGTGAGTTTC
ATTTCACTCTCAAACTCCTCCCTTTCCAGTTCTGGCCCCATACAAGCCCGCTGCCTGCAGTGGGATGG
AGGAAGATGGTTTCTTTTCTTCCCTCCCATTATTTGTCTTTGTGCATCTTAAAGCCAGCCTGAATTT
CTACTCCCTACAAGGTTGAAGTGGGTGGGTGAGGAGTGGGGAGAGAGCTAAGGAACGTGGCGTGAGTT
GTTGTTGTGTTTGAAGTCTGGAAGGTGTTGGGAGCTGCCCCCTCACTCAGGGCCTCATTTATGGGCTCT
TCGGATAACCCCATGCTCTAGCACTGGGATCTTGCCCTGTGGATCCCTCCATGCAGGTGGCACCACACC
CTCTGGCTGGTTGTGATGGGCTTCTCAGCTTTGAGAATTAGCAACACACTTCCCTATTGAAGTCATCTGT
CCCTGTGGGTAGCCCACTTGGGCTGGATGCAAACCTGAACCTGCACTGATTCTCTCTTGCATGTGGCCAC
ATGAGCTCCATTTTCTCCGCAAACTTTGGGTGCACAGCCCCACGACGACACAGACAGCTTTTCTTGCGT
GCCACCAAAGTGGTGGGCCAGAGTTCTCTTATCCTTAAGATTTTCAGGTGTCACCACGTCCACCAATTCT
TGGCAGACATGAATCAATACTTCCAAGGGTTTTGGTGAAGCCCTTTTCCCTGGGCTGCAGATGAGGGCAG
CCATGTCTGTCTCTTCCACCTGTTGTGGAAGGGGTTTATGGCAAACATCTTGAACATCCTCTAATTTT
CCAATTCTTGATCCTTTTCGTATGCTTGATGTGTGAGAGAGAAGAGAGAAGAGAGAAACGCTTCTTGCTGC
TTTTTTTTTTTTTAATCCCACATGGTGACCTTAGACTTTACTTTGGAATGTGCCATTTAATATCTGGGGA
CCTCAGCCCAACACAGGGACTAAATAGCTCTGTTTTAATTTTGTATATACACACATTCATTTGACC
AAATGAACATGTTCCAGCTTTTTTAACCCCTGCCCAGCAAATCACTTAATTCAGTTAATAAAAAGACTAA
AATAATGAGGCCAACCTTATTGGCCACGAACATCTGTTGGGTATTCCCTAAATTGATCCCTGAGTTAATCT
CCACCTTTAAGGAGTTTATAATTTTATTTGGCAAATTGATGTTATAATGAAATTCCTGGGCATGAAAAA
ACCTAATATGTAATGTTGGATAGTGTGAGTTTTCCCAAAGTACCAGTATAAGCAATAAATGCTATAAC
TGATCATGAATTGTTTACAGTGATTGAGTAGAATCATTGCATCTGGTCATGAATAGAAAGAGCACCTCCC
AGACGGCTGGTCTGCTGCCAGGTGTGAGTTTTAGGGGTCTCCACACTCATTCTATTACATCTTTTGAC
TTTATCAGCTGTGTGGTGGATCTGTGGTTACAGGCTGATGTGGTTTGGCTGTGACCTCGCTCAAATCTCA
TCTTGAATTGTAGCTCCCATAAATCCCACGTGTGATGGGAGGGATCCAGTCGGAGGTAATTGAATCACGG
GGGCGGGTCTCTCCCGTGTCTGTTCTCGTGGTAATGAATAAGTCTCACGAGATCTGATGGTTTTATAAATG
GGAGTTCTCTTTCACGAGCTCTCTTGCTGCGCCATGTAAGAAGCGCCTTTGCTCTTCCCTTTGTCTTCT
GCCATGATTGTGAGGCCTTCCCAGCCATGTGGAACGTGTGAGTCCATTAAACCTCTTTCCTTTATAAATTA
CCCAGTCTTGGATATGTCTTTATTAGCAGTGTGAAAATGGACTAATACATGAGCCACATTGTTACAGAGT
TTCTGAAGGTCATTAAGAGAAGTCCATGCTGTGGGCTGAGCTGGGACTCAAGAATCTCAAAGGAGAGCCA

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GTGCAATCAACACGAAGGGCCCATCTTGAACTCCTAAGGCAGGGCAGAGCTGGGTCTTATGGAGACATGT
GGCTTTCAGGTAATCCAGTGAGCACCTGTGTTTTCTCCTATAATTCTTGAGGAATGGATATTGTTCTAT
ATTTTCAGATAGTATAATAATAAATACCTGGAAAATACTGTATGACCCCAAACAACAGGTAAAATGTCAAA
AAAAACCTTTTATCTACACAAAGTTAGACAACAAATTCAAATAATCTTATCCGTTTATTTCATTCTCTTCC
AATACAATCATGTATCATTTAATGATGGGGATGAGTTTGGAGGAAGGTGTTGTTAGGAGATTTTGTCTATG
GTGCAACATCATCAAGTATACTTATGCCAACCTCAGTGGTATAGCCTACTACACATCTAGGCTTGGATA
GTACAGCCTGTTGCTCCTAGGCTATAAACCTGTACAGCATGTTACTGTCCTGAATACTGCGGCAACTATA
AAATAATGGTAAGTATTTGTATATCTAAACACACTTCAACATAGAAAAGGCACAGTGAAAATATGGTATA
AGAGATAAAAAATGGTCCACCTGTACAAGGCACTTGCCAGAATGGAGCTTGCAGGACTGGAAGTTGCTCT
GGGAGAGTCAGCGAATGGCTGATGAGTGAATGTGAAGGCCTAGGGCATTATTGTATGCTACTGTAAACTT
TATAAACACTGTGCACTTAGGATACACTAAATTTATTAATAATTTTCTTTCTTCAATCAATAATAAGTG
AACATTAGCTTACTGTATTTTTTTTTTTTACTTTATAAACTTTAATTTTTTTTTTAGAGATAGGGTCTTGCT
CTGTTGGCCAGGCTGGAGTGCAGTGGCACAATCATAGTTCACTACAACATTGAACTCCTAGGCTTAAGCA
ATCCTCACACCTCAGCCTCCTGGGTAGCTGGTACTGCAGACATACACTACTGCACCCAGCTAATTTTTTAA
ATTTTTTGTAGCGACTGGGTTCTGCTATGTTGACCAGGCTGGTCTTGAACCTCCTGACTCAAGCAATCCTC
CTGCCTCAGCCTCCCAGCATGCTGGGATTATAGGTGTGAGCTACTGCACTTGGCCTAAACTCTAATTTTTT
AAAATCTTCTTGACTGTTTTATAATAACACTTAGTTTGAACACAAACACATTGTACAGCTGTACAAAAA
TGTTTTCTTTCTTTACATCCTTATTCTATAAGCTTTTTTCTGTTTAAAGTTTTTAAAAATGTTTTAGTCTG
AGTGGGGGGCTCACGCCTGTAATCCTAGCACTTTGGGAGGCCGAGGCGGGCAGATCATGAGGTCAGGAG
ATCGAGACCATCCTGGCTAACACGGTGAAACCTGTCTCTACTAAAAATACAAAAAAATTAGCCGGGCAT
GGTGGTGTGCACCTGCAGTCCCAGCTACTCGGGCGGCTGAGGCAGGAGAATGGCATGAACCCAGGAGGCG
GAGCTTGCAGTGAGCTGAGTTTGCACCACTGCACTCCAGCCTGGGCGACAGAACGAGACTCTATCTCAAA
AAAAAAAAAAAAAGTTTTAAACCTTTTTAAAAAATCAAAGTCACAGACACATGCATTAGCCTAGGCCTAC
CCAGGGTCAGGATCATCAATGTCACCTGTCTTCCCCCTCCACATCTTGTCCCACTGGAAAGTCCTCAGGGA
CAGTAACACCCCTGGAGCTGTCATCTCCTCTGATAATAATATGGGCTTCTGGAAGACCTCCAGAAGGACC
TGCCTCCTGCCTAATGCTGTTTTACAGGTAATATTTTTTCTAGTAGAAGGAGTACACTAAAATAATGAT
AAAACTGTAGTAAAGTAAATATATAAATTAGTCATATAGTCATTTATTATCATAATCATTATGTACTGT
ACATAATTGTATTGCCAGACTTTTTATACAACCTGGTGGCACAATAGGTTTGCTTACACCAGCATCACCACA
CACGTGAGTAATGTGTTGTGCTGTGACATTAGGACAGCTACAATGTGAGGAGGCAATAGGAATTTTTTCAG
CTCCATTATAACCTTACAAGACCACTGTCATATCTGCAGTACAAAACATCATTATGTGGTGCATGACTAT
ATTTACTGAGCACCAAAATATGTGCCCAGGCAGTGTGCTAGGGGCTGGAAGTGACCTCGAAGTCTAGTAAA
AAAACCACAACAGTAAAACAATATGTGTAATTCAAAGTGACATATCCTGTAATAGCTGGTTGCCTACCTG
CTCCCCAGAGAGAAAATTAAACCTGCTTGCTTAACTTATTAATTTTAAATTCATGTACTTGCAATATAAAA
ACATATTTTTAAACATATATTAGGAGAATAGGATGTCTCTGTAGTGATAGGCTATTTAATGTTCTCTTCAC
TGTGTTCTAAAAAAATCGTGATCGAGTGTAACAAAATGGGGAAGGGAGGGTTAGCATAACTCTCCTTTG
ATGTCTATGCTGTGGATCAGAAAACCTCATGAATATGTTAACAACCTGGATTTTCTCCTAATATGAAAACAA
CTCTTTGGCTTCTTTTGCAATGTGAAAAGTTAACCATAAATATAAGACCTTTTCTTCCACTAAACTA
GGGCACAATCATTGTTTTCTCTTATTGGAGTCCAAATGGGTTTCCATAATCTTCAGATCTAGTAGTTGT
ATTTATCGATGACATAAATGGAAAGACTAAAAGATAAAGTTAAGAAAAATTCAGTGGTTTATGGCTTCAA
CTCTACTGATAATTTTGTATATAAAGGGATCCTAAATTAGACTGTACACACATTTGCCATTTGAGTTCCA
AGCATTTTAGCAATAGATCAAAAGATCTTAATGCCTGATAGTTGAAAGATTACTTCCAAATTTTTTTTAT
TTTTGTGAAAGCCAAAGTCCTTTTCTCAACATGACAGTCACAATTTTGTCAACAATCTACCCGTTATTTA
CAAAGTTTTAAATCTGATAATAGATATTTACTTTGGACTATACAATGTCTCAGTGGGAGCAATAGATGGT
TTACAATGGGTCTGAAAATGTTGCAAATAGTCAAAACTGGCATTGCAACAATTCATTTCCAAAAACACAC
TAGACTCGTGAGTTTTTGGTTTTTAAAGTTTATATAGCTTGCTTCTGGTGTAAACGTTCTCCACACCTAAG
GTGCCAACATGCATGGCTACTCTTTGTCCCCAGAGAAACATTGCTAATTTGTACCAAATTTCAATGATGT
GTCAAGCAAACCTGTCATTTTGAATGATAGTAAGCACGCCCTTCAACAACAGCTCTTTATTTTCGTCCAAA
CCTTTGGGCCACACAATTCTGACCTTTATCACACTCTCAGTACCTTTTCATTTCATTATTAGCTTGTGCTTC
TGGGGCCCCGGGAATTGTCAACTATGGTCAAAATAATGGAGCAAAATAGCAAGAAGAACTTGCGTTTCCT
ATATCATTGCATTTAATCTTTGCAACAACCTCTTTGAGGTGGAAATTGCCCAATTTTATAGATTCAGCTT
AAAGACCTTGATTTGTCCAAGATCACACAACCACTAGGAGGTATAATGTTCAAATAAAAAATGTCTGAAAA
GAGCTGGGTGTGGTGGGTGATGCCTGTAATCCCAGCACGTTGGGAGGCTGAGGTGGGGGGATCACCTGAG
GTCAGGAGTTTGAAACCAGCCTGGGCAACATGGCGAAACCCCGCCTCTACTAAAAATACAAAAATTAGCT
GGGTGTGGTGGTGCATACATGTAATCCCAGCTACTTTGGGAGACTGAGGCACGAGAATTGAATGAACCCTG
TGAGGCAGAGGTTGCAGTGAGCTGAAATCGCACCACTGCACTCCAGCCCAGGCGGCAGAGTGAGACTCCA
TCTCAAAAAAAAAAAAAAAAAAAAAATCTGGAAAGATAGATTACTTGGCCTCAATCATAGTAAAAAAGTGT
CAGTTAAACTGCATGGAGAGATACTATTTTGAAGAGCATCAAAAAGTTTCAAGATCCATCATATTTGTA
AGGCTATGGGAGTTTAAATTGTACAGGCGTTATGAAGGCATTTGGTTACATCTACCAAATTAACACCGC
ACATATTTACTCATGTGCAAAATGACTTATGTACAAATTTACTAATTGTAGCATTGTTGATAATTGTAAA
ATAATAGGAACACACCTAATTGCCATTAATGGGGAACCTGGTAAAATAAACTAGAATTCCTCTGTGCATGG
AATACTATGCAGTCATCAAAAATGACGAAGATGTGGCCGGGTGCGGTGGCTCACGCCTGTAATCCAGCAC
TTTGGGAGGCCGAGGTGGGCGGATCATGAGGTGAGGAGATCAAAATCATCCTGGCTAACACAGTGAAACC
CCATCTCTTCTAAAAATACCAAAAAAAAAAACCAAAACACAATTAGCCGGGCATGGTGGCGGGTGCCTGT
AGTCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATGGCGTGAACCCAGGAGGCGGAGCTTGCAGTGAGCC
GAGATTGGGCCACTGCACGCCAGCCTGGGTGACAGAGTGAGACTCCGTCTCAAAAAAAAAAAAAAGAAAA
CAGAACAAAACAAAAATGAGGAAGATGTTTATTTAGTGAAATAGAAAGATATCCAAGATATGTTGCTAA
TAAAAACAAAAAAACACATGGCACAATAAGGTGCATGTTACTATCTGGGTCTTTTAAAAAGGGGTGT
GGAAGAATGTGTGTGTGTGTGTGTCTTCAATATGTGTAGAAATATCTCTGGAAGGAAATTTAAAACTGGCG
ACCTCAGCTGTCTCCAGAGAGGGGAAAAATGGTGGGTTGCAGGCAGAGGTGAAAGATTTTCCCACTATGAC
TTTGAAAAATATCTTTTCAAGTTTAAAGCACCAACTGCATTATATATCAAGAGTAAATAAAATACAATTTT
AAAATGAAATGGCATTGTGTAACACTTGATAGATGTTTCAGTTAACAGCCATCAGGATTTATTAGTAATT

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GTGGTTTTTGGCATTAAAAGTAATTTTAAAAGTAATGGTTTTGGCATTAGTTTTAATGACAAAAACCACA
ATTAGTTTTGCACCAACCAAATACCTTACGCTTCTGGTGAGGGCTCAGAAGAGAGATCATAAGTAAAGAA
CACTAGAAAAGGATGTTTAAATATTATTTCCCTTTTTTAAACTGGTGGTTGTCAAAGCAGTCTGAAGGAAAA
GTCTCCAGAAGTGGTGATCATGTTACATAGCAGTAGTTTGGAGTCAACAGAAATCATCTTCACCATCAA
CCTAGCTCCGAAAGAGGGCCGAGCCAATCTAGTTCCCTTGGCCAACCACCTTCCTCCCAACCTATACGTTG
GGGTGATCCACTACAAAGCTCTCAAGAGTATACACAATGCTACTACAGTCATTGTGAGTGAGATCTGAAG
GGAGCATAGGCTAGGACTCATGAGATTATAGTTTCAGAGTTTCTACTGTAATTCCTTTTCAGCAAAGTGAAG
AGCATGTCACTGGGGTTACAAGTGTTACTGGCTACTTAGCTAGTGCTAGATTACCCAAAAAAGTAACCGG
GTCTCATGGGCAGAGGTGGGAAAGTCTGTTAAGCACATAGTGAAGGATGAATCTGGGCTGATTGGAAAAAC
ATTTGTTTGAATGAATGTAGCATTTATTTCCAAGAATAAGCATGTCCAGACTGATTGAGCAAGAGTTATA
TTTAGTTTCAGTCGTTCTGATGTCCATTTTGAGAAAGCTAAACCAGCATGCCAGAAGGGGTCAAAGATCAC
ATTTTGCATGAAAGAAAAGCCAATGGAAATGGGACTGTTAGACTTAAACTTTTGGGTATTTTACACTAGG
ACTTAGAAAGGACTTTTATTCCTTTTATATTTTCTGTCTCTAGCATTGCAAGTAGCAACAGAGTGAATTT
TTGGTATTTGGAATACTCTCTCCTCATTTTTCCTTTGGGAAAATCATTAGCCTATTTGATTTGACTGCTG
TTGAATATGTTCCATGACATCCATAAGTCTACCTTCAGGCATTGCTTGTGCTTGTATTACATATGATT
AATTGCTTACATAAGAACAATGATGATCCCTGCAGGGGGAGGAGGGATGTGAAGAACAACCTTACTTAGGC
ATTCCAGGGGCTAACAAGGGATGGTTTGATACAGCTCATTCTTGTGTTTGAATCTTCATGCCTCTTGAGAA
AGAAAGGAGCAGAATATGCTTTGCATGGCGCTATGTCCTCCAGGTCTATGTTTTCTTTTTTGTATTTT
ATCAGTTCTCTACGTAAGGATTTTCTCAGTTTAAATATAATTTCCATTTTTTAAATTCAAATACCTACATA
TGAGGTGGGAAAGGAAATTAATCAGATGCATTCCTATAAACTGCAGACTTAAATTAAGACCTTGAGCAAA
CTGGCATTTTGATGACTTGAGGATTGAGTGGGTGGGACAGTTGTACATCTTGAACCTCTGGGTACACTGCC
GAAAGCGAGGCCTGAGAAGGCTGTGTTGAGGAAGGAGTGTGAGTACTGAGCCTGTTGGAAAGGGAGGCT
GAGAGAGATGAGGACACATACGTAAGGGAGAACACATTGGCTGGCCAGGTGTTTTTTTTTCTGCTGTGGG
TTTTGATTAGAATTCTGGGTCTCATTAAAGTGACCCATGTTGAATAGAGATTGGATAGGGCTGGCTTGAA
AGCCCTCAGTGAAGAGATGAACCTGCACAGCATGATAAGGAAGTAGATGCAAATTCAGGACAGGAAATGGA
GAAGGGCAGGGTGAGAAAAGGGAACAAATTTACAATTTGTGCCATTAGCCATTTATTAGAATTTGGTATA
AGAATTTGTGGAATTATTGTTTTCTTCTGGATTATGGGTACAAAACCTACTGACAAGTGTCACTAAAAG
TGATGTCTTTATTCAATTATCAACCAAAAGTTTACACTAAATTCCTTTGAGTCTTTGAATGTTTATGTT
ATTTCCAATAATCTTTCCAGTTCTTTTAAAAGGCTGATTTTTAGGAAGGCTAGCACTTTTTGATCACAGA
ATAGTTTCCCAATGAGTATGATAGCTTCAATATCTTTCAAATTAGATTCTTTTGAAATTGAACGTGTGT
CAAATCAAATAAAAACAAGTAGGGTTTTTTGCTGTTATTGTTGAAGGTATTATATTTGCAAGTTTGTACAA
TTTAGCAGATATAGGAAAGGTCTAATTTTTTCTTTAGCTAGAATGTTTCAGTTCAAATTATACAGATATA
AGCATGAGACCTAAATGAACCTCTCTCTGATGAGTAATGAATGGAAGGTAGATTACTCATTCTTTCATGT
TCAAAAACAAATATGTCCTCTGAACACAGTTGTTTCAATGTTTTTAACTTATGTTCTCAAGCTCTTCCC
ATTTCTTTATCAGTGATTTGGGAATGTGAAGGCAGTCTTGTGTAGTTTCCAAAGATTTAGGCATTTTTG
AGACTCTAAGAATAGTTTCAATTAAGCCACCAATTAGTCCCTTAATTTTATTTAAGCTGAGCAAGCAAGGCC
CACACTAAAAGTCAGAAGAATGCGGCATCTACCCAGAGAGGCTGAGGGTGGGATAGAAAGAAGGAGGCAC
TCCAAGTTTGAGACACAGATTCTATTCCAGTTCCTCAAGCTGCATGACCTTCAGCAAGTCTCCTGTGTT
GTTTCAGGACCCAGTTTCTTTATAAGTGCAATGAAGAGTTTGGACTCAACAACCTATAAAGAAACATTCA
TTCTAATTGTCTATTGTGTGAAAAGAATGTGAGTTGTTCTAGAAAATATGAATCTGCTCCCAATTGTCC
TCCAAGCTCTGGTTCTAAATTTTCAGTTATTATAGTTACTTCTTTCGAGGTAAATCATTGAGGAAGTCAGT
TAATGCAGAGATGATGTCTGGAAGGAGTTTACAAGTTCATTGTTCAAATAGTATTTGTTGGGGGCCAACT
ACAACCTACACATCAGGGATTGTGCTCACATTGGACTAGTGTCTTTGGAAAACAGAGTCTTGTGTGCCCT
TTTTGAATTTACAGGCCAACTTGGGGAAGCAGAGAGACAAATAGGAAATCCAACAGCATGATAAGTAGTA
TAATGAGAATGTTTAGGGAGATACGAGCATTATAGGAGTAGCACTCAATAGGAAATCAAGGAAGGCTTC
CTGGTGGCTATGATGTCTCAAGGGAGACTTGAAGCATGAGTAGGAGTATGTCAGATGAAAAGGGATGGGA
GGAAGATTTTCAGGTAGGGTAATTTGCATACGTGAATATTTAGACCCAGAGAAAAGTCCAGAGGGACTGAGG
AACTTAAAAGAAATCCAGTATGGGAGGAGCATAGTACCTGTTGGGGAGGGTGGGGACTCTTGATAAATGA
GGATAGTAATTCAGTTCTTTGGCTCTTGAGTTACTTTTGGACAAGTTGAGCTTCAAGTAGCTAGTACAT
AGGAGGAGCTTAATAAATATTTTATTGAATGAATGAACATGTAAGTAAAAATGTCTAATAGGTACCTGGCA
AAGTGGACTTCCTAGTCAGGAAAGAGAGGTTGGTTGGAGATTTCTATTTTGAAATTTTCAATGTATATAT
GAAAGTAAAAACACAAGGAGTGGTTGTGATCATCCAGGAGAAGGTATGCAGAGGAGGGAAGAGGGTCTAG
GGGCTGAATCCTGGGGTACCCACACCTGAGAGGAGGGAGAGGAAGAGGGGCTCTCAGAAGAGCCTGAGCA
GGAAGGGCCATTGTAATAGGACTAAACACTAAGCCCCCTGAAGTCAGCTCTCTGGGGGCAGAGGTTTTTGT
TCTGTTTTATTTTGGGATGCCTGCTGTTGACCAGATTATGCTCCCTACCCACCCAAATTCACATATTGAA
GCCCTAACACTCAATGTGACTGTATCTGGAGATAGGGTCTTTGGGAGGTAATTATGGTTAAATGATGTTT
TAAGGCTGGGACCCCTACTCTGATAGGACTGTGGCCTTATAAAAAGAGCTCTCTCTTTTCTGTCTCCTC
CTTCTACCTCCTCCAGGACCCACCCCAACCCACACTGAGAAAATAAATCGCTGTTGTTTAAATCACCCA
GTCTATGGTATTTTGTACAGTAGCCTGAGCTGACCAAAACAGTTCTCCGCACTTAGAAATGGTCCTGGT
AAATACAGCTAATCAATATTTTTTTGAGTGAATTGAATGAATGAGTCATTCACTGGCATGCTTATAAATG
CATTACTCCCTCCACAGTGTGATTGTCAATTGAGCAGCTTGGGAGAAGGGAGGAGCTCTCGCAAACATGGA
AGTCTGGGTGCTTAGGGAGAATGGGAAGGTGCCGTGCTCACAAAATCGGAAGAAAGAGCTGAAAGGCTG
AAAGGCTGAAAATGCTAAACTGCTCAAATCTCCTCTGTCTTTTTTTAAAAAAATCATTGGCTAGGCTG
GCTCTGAAATTGGGGATGGTTCTTGGTTGATTATGTGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTG
TAAAGGCCCTTCTTAACATTAGATAGGACTATCTGAATCTAAGTGAATTTAGGCACAATCTAGATATTGC
TCTTCATAGAGAAATAATACTCTAAGCTGGCAATGAAATTCCTCAAGTAAACAACAGATAAAGGGAAGGA
GAGGGACACAGTGTAACAATAATTGGAATAATTGGAATTTCTGTATCACTCATGGCACTTACAGTGAAAG
TACTTTCTACATTGTCTTCTATTACATGCAACATAGGTACATTATATAAAAAGATCCTAAAATATTGTTA
AAAGAAATTTTCCAGAAAATGTAAGATAAAAGTTACTAAATCTATTAAGCTTGCAAGTTAAATCCAAA
TCATTCAATTGACTCATAATCAAGAACAGTCATGCTGCCTGACAACCAAAAATTCAACTGTCTTCATCA
AGTCTGGGTGGGAAGCCAGGAAATGGGATCTGAGATCACAGGCTTTGTGAGAGTCAGGGTCTTTGGCGT

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GATTCTTGGTCACAAATCATGCATTTTTTTCCTTGGAGAGATAGTGGGAAAAGAAAAGGCTGTTTAAAAAC
ATGTTAAAGAATACTGATTCCATTTGACTTCTTGTTAATGTGTACCCTTGCAGACTTGGGTAAAACCTTGA
TCATGTTAAAAGCCATTGTACTTAAAGATTTCATGACTAGAGTGTTAGGACAATTCTGTGGCCTTGGGGGT
CCCATTGCAGCAAGAAGAGTCTGACTGAGAAGAGGATAGCTCCGTCTTTGATGCCTAGTAACCTGCATG
CCCAGCACTTTGCTGGCTGGGCCATTGGTAGGAAATGCGGTACATGCACTTCAATCTGTAAGAGATCATG
GTCCATAGAGATCATAGATTTATTTTGCACCTGGCCCAGATGGTGATAGAAGTCAGGACAATGGTTGCC
TAGAGGGGTTGGGAGTTTATTAGAATGGGACACAAAGGGAAATTTCTGGGGTGATGGAAATACTCTATAC
TTTCATTGGGATGATTGTTACATGGACATATCCATCTGTCAAATTCATCAAATGGTATGCTTTAGATACA
TGTATTTTCATTGTATATAAATTTTGCCTCAAGAAACAAAACTCAAGGTCAGGTGAAAAAAGTCCAGGAG
CTAATCAAAAACCCCTTAAATAAGTGACCAAACTATTTGTGAAAATGAGCAGAACTTAAAGGGAAATTC
TTTGTTATTTTTCCACATTAGAGGAAAATTGATGGTATCAGATAAATGCTCAAAAATAAGCTTCCAAACA
GAGCATTTTATAATCAGTACAATAATAAGTTTGAACACAGACAAACCTTCATGTCTCAGAGTGAAGGAACC
ATTTCTAGTAGTATAAGCTATTACGGAGATAGTTCCACATTTATTTTCTTTCATGTTTCTTTTGGAGGAA
TAATGTTTTTGTAAATGTAAATGCTTTTAAATGGAGCTAGAGAAGAAGCTATGTTTGGTCATAGTATTAT
CTGCTTGCGAACATAAAATTCAGAGCTCTCTTGTGAATCATGTGCCAAGAATTGCAGACTTAAGCCTCA
AGATTGTACGAATTTAAATTTTGACTTTATGGCCTCAGTTGGCATGAAGATACAAAGATAATCTTCTAGC
AAAAACAGTTTTGAAAGACCGGGCGTGATGGCTCATGCCTATAATCCCAGCACTTTGGGAGGTTGAGGCA
GGTGGATCACCTGTGGTCAGGAGTTCAGGACCAGCCTGGCCAACATGGTGAAATCCTGTCTCAACTAAAC
ATACAAAAAATTAGCTGGGTGTGGTGGCGGACACCTGTAATCCCAGCTACTTAGGGAGGCTGAGGCAGG
AGAATCGCTTGAACCCAGGAGGCAGAGGTTGCAGTGAGCCGAGATCACACCAGTGTACTCCAGCCTGGGT
GACAAAAGTGAAACTCTGTCTCAAAAAAAAAAAAAAAAAATGGTAGAATGTCACATGGAAAGTTAACTTTTAG
AGATAGTAATCCAGACACCTATAATATTACATTGTCTTTTTAAGTATCTATATCAATAAATTAACCAACA
TTTGTTGACTTAAACATGGCCAGGGACAGTGCTGGGTTCTCATAATCCCAGTAATCTAGCCAGACCTT
GTCCTCAAGGAGCTTATGAGCAGCATGAGGAGATAAAAAACAGATAAATAACTCTAATTCAGGAAGAATT
TGATAAATGCATGATAACTACTACTAGAATTCAGAGGAGAGGAAATTTTCTTTGAATAGAGACTAAAGGA
AGGAATAATGAATGTGGTAGCATTTGGGCTGGACCTATTACAAGAGGCATGCTTTCCCTGACAAGCCAA
GAAAGTGGGGATTTAAGGTAGAAGAAAAGAAAAGCCCTTGAGTTCTTGAGTATTAAAAATTTGCTTGGCT
GAAGCATAGGTTACAGTCGGAGGAGATGGACTAGGAAGGATCGTTATGGGCAGAGAGGAAGCCCTGAAC
CATGGGGGAAGCTATGATTTGGGTTAAAGACAGAGCTGGGTCATGTCAAGATGGATCCTGAAGCAGTAAA
AAAAAATCCAAGAAAGTAAACAGGTTGCAGGTTTAGGATGAAGTCCGGGAGGAAAGGGCAGAGTGGTCC
TTAGGAGGCCGTTAGGACAGGTAAGGTAATGGGTCTCAAAGGGAGTGGCCGAAATGCAATGGAAAAAGAG
AGATTGTAAAGCTAGAAGGCTTAGGAATTGCCTCTTGATTAGGTGTGGAAGGCAAGGGAAAATCAGCCCT
CGAAGAAGACAGTGAGATTTTAACTCTGGGTGGCTGGAGAGACAGTGATGCTGGCACAGACACGGGAAGTT
GAGAGGAACACCATGTTTGAGAATGGTGACTCATATTTGAACAAGCCTGCAATGCCAGCAGACCGCTGG
AAAAGTGGGGCTGGAGACACATTCAACGGAGGAGCCAGATCAATCTTTACCCTTCTTCACCTGAGAGAGC
CAGTAAGTCACGGCTGGAACGTGTGTGTCCAGCAGGAGAGGGTAGGGAGGGAAGCCAAGAGAGCTGGGAG
CCCAAGAGTGAAGTTTTTGCCAAAGGCAGAAGAGGAAAGTCGGCGTAGCACAGTATACTTTCCCACCCAT
GCTCACCAGCCAGGGACAAGGCTCACCAGATGAGTTTGGAAGAGAATGCTGGAGAGAAAGTGGTTAA
GAAACTGCCTTTACTGAACTTCTTGGGCTAACTTTGATTGTAAGTCTCTGAACAATCAAAGCCTGTGAG
GAGACAGCCAACCTTCTTATTCTTCCCTATGTCAATAGTGAACAATTGCAGATCCCCCTTTCCCTTCCCTTCT
CCTTTCCCTGTTCCTCTCTCCTCCCTCCCTGAATACTCTTGCTTTTTTCTGGGACTGGTCTAGAGCATG
GGTGGCCATTGTTGACCTACAGGAGGCACCACTGTCACCAACAAAGGGTAACAGTCTTTCTTTTCAATAT
TTATTTATATCCAGTATTTATTTTCAATACTGACTATGGAGAGAGCTCTCCTGTGCTCAAACTGCAAT
ACTGGGGGTCTTTCAAAGCACAAAACATATATTTGCATGATGGCATCATTAACATTTTTTATGGCTTTCT
ATTTCTTTTTTGTACTGGTCTCAAGAGCCACTCATAAATCTCTCAGTAACTGCATAGTGTCAGGGCCA
GAGACCGGCACTCCTGGCATTTGTGATTAGAGTCATTTAATATCCAAGGTGGTGACTAATGTCTGGCAAC
AAAGCCTCCATTGGGTGTCTGTCTGGGACCCCTGAGCGTGGGCACTCTAGGAGCACCTCAGTATTGC
GTGTTAGTACTATGGCCGAGAGAATAGTTGAGAAAGTGGTCAAGAGGTGGATCCATGTGAACGCCACTGG
GAAATGAGAGACCTCGTTCCCAATCACGGTCAGTGCAACTCGAAAGCCTAAAATCAGTTTAAAACAAAGG
TATCTACCTTTATCTTATGTTTCATATCCTAGGCTTTTAATAATACGTATTTTTTCACATGTTTACAGAAAG
CAGTCAACTGAGCTATTCATGGAAAGGTTTGTGGGTTTGGTTAACGAAGTGGAGGAGTATTACATTTTCA
CTGGAAACACATCCCTAGAATGCCAAAACATTTATTCCAAAGTCTGGTTTCTGGTGCAATCGGAGGCAT
GGCAATGCCTCTGTTTCAGAGACTGGGGGCTAGGGCCAGTAAGGCATTTGATCCACATGTATCCCAGAAGG
CTTTTATTGTTAAATTATATTCTTTTCGGA AAAACACCCATGTCTATTTTGTAACTTGATATCCATAC
ACTTTTGACTGGCATTCTATTTTAGCCGTAAGACTATGATTACAGCAAGCCTGTTTTTCTCTTGCTTG
GGGTGGCAGCAGAAAGCATAGGGTACTTTCCAGCCTCCAAGGGTAGGGGCAAGGGGCTGGGGTTTCTCC
TCCCCAGTACAGCTTTCTCTGGCTGTGCCACACTGCTCCCTGTGAGCAGACAGCAAGTCTCCCCTCACTC
CCCCTGCCATTTCATCCAGCGCTGTGCAGTAGCCAGCTGCGTGTCTGCCGGGAGGGGCTGCCAAGTGCC
CTGCCCTACTGGCTGCTTCCCGAATCCCTGCCATTCCACGCACAAACACATCCACACACTCTCTCTGCCTA
GTTTCACACACTGAGCCACTCGCACATGCGAGCACATTCCTTCCCTTCTCACTCTCTCGGCCCTTGAC
TTCTACAAGCCCATGGAACATTTCTGGAAAGACGTTCTTGATCCAGCAGGGTAGGCTTGTTTTGATTTCT
CTCTCTGTAGCTTTAGCATTTTGTAGAAAGCAACTTACCTTTCTGGCTAGTGTCTGTATCCTAGCAGGGAG
ATGAGGATTGCTGTTCTCCATGGGGGTATGTGTGTGTCTCCTTTTTCTTTTCAAGGACTTGATAGGATTCTTT
GTGCCATTTGCATATAAATTTGGCAGGTTACATTTTTTAAGAGCCCTATGAAGTGCTTTTTTGCATGTGTT
TTAAAAAGGCATTTGAAAATTGAAAGTGTGATTTATGGAAATTAATCATCTGTAAAAAATTGCTTTGGA
AAGTAATGATTGCTGGCCATAAAGGGAAATATCTGCCATGCACCTAATGTGTTTTTAACCCCTTATTTGC
TGACAACTCTATAGTCATTAATGCTAACTCGATTTTGGCTTCAGCTACATTTGCATATTGTCCAACAATG
GTCTATTTTTGTAGAATTAGATAAAATGTATACTTGATATAAAATAGTCAAAAATGTAACCTCTAGTAA
CAGTAAGCTTGGCATTTAGATAGACCATGAACACTTCGTGAGATACTCTGTTGGGTGTTTGGGATAGCAA
TTAAAACAAAGTATTGATAGTTGTATCAGAGTCTATTAGGCTGCAGCAAAGGAAGTTTATTCAAAGTAT
AAACTATCCAAGATTATAGACGCATGATATACTTCACCTATTTTTTGTCTCCTTAATATGTATATATATA

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TATATATATATATATATATATATATATATATATACACATATATGTGTGTGTGTATGTGCGTGTGCATGTT
TAACTTTTTAATTCAGTTAAAACTTTTTTCTATTTGTTTTTCATCTGGATATTTGATTCTGCATATCCTA
GCCCAAGTGAACCGAGAAGATCGAGTTGTAGGACTAAAGGATAGACATGCAGAAATGCATTTTAAAAATC
TGTTAGCTGGACCAGACCGACAATGTAACATAATTGCCAAAGCTTTGGTTCGTGACCTGAGGTTATGTTT
GGTATGAAAAGGTCACATTTTATATTAGTTTTCTGAAGTTTTGGTTGCATAACCAACCTGTGGAAGGCA
TGAACACCCATGTGCGCCCTAACCAAGGTTTTCTGAATCATCTTCACATGAGAATTCCTAATGGGAC
CAAGTACAGTACTGTGGTCCAACATAAACACACAAGTCAGGCTGAGAGAATCTCAGAAGGTTGTGGAAGG
GTCTATCTACTTTGGGAGCATTTTGCAGAGGAAGAACTGAGGTCCTGGCAGGTTGCATTCTCCTGATGG
CAAAATGCAGCTCTTCCCTATATGTATACCCTGAATCTCCGCCCCCTTCCCCTCAGATGCCCCCTGTCAGT
TCCCCCAGCTGCTAAATATAGCTGTCTGTGGCTGGCTGCGTATGCAACCGCACACCCCATTTCTATCTGCC
CTATCTCGGTTACAGTGTAGTCTTCCCGAGGGTCATCCTATGTACACACTACGTATTTCTAGCCAACGAG
GAGGGGGAATCAAACAGAAAGAGAGACAAACAGAGATATATCGGAGTCTGGCACGGGGGCACATAAGGCAG
CACATTAGAGAAAGCCGGCCCCCTGGATCCGTCTTTCGCGTTTTATTTTAAGCCCAGTCTTCCCTGGGCCAC
CTTTAGCAGATCCTCGTGCGCCCCCGCCCCCTGGCCGTGAAACTCAGCCTCTATCCAGCAGCGACGACAA
GTAAAGTAAAGTTCAGGGAAGCTGCTCTTTGGGATCGCTCCAAATCGAGTTGTGCCTGGAGTGATGTTTA
AGCCAATGTCAGGGCAAGGCAACAGTCCCTGGCCGTCTCCAGCACCTTTGTAATGCATATGAGCTCGGG
AGACCAGTACTTAAAGTTGGAGGCCGGGAGCCCCAGGAGCTGGCGGAGGGCGTTTCGTCTGGGAGCTGCA
CTTGCTCCGTGCGGTGCGCGGCTTACCGGACCGCAGGCTCCCGGGGCAGGGCCGGGGCCAGAGCTCGCG
TGTGCGCGGGACATGCGCTGCGTGCCTCTAACCTCGGGCTGTGCTCTTTTTCCAGGTGGCCCGCGGTT
TCTGAGCCTTCTGCCCTGCGGGGACACGGTCTGCACCTGCCCCGCGGCCACGGACCATGACCATGACCCT
CCACACCAAAGCATCCGGGATGGCCCTACTGCATCAGATCCAAGGGAACGAGCTGGAGCCCCCTGAACCGT
CCGCAGCTCAAGATCCCCCTGGAGCGGCCCTGGGCGAGGTGTACCTGGACAGCAGCAAGCCCGCCGTGT
ACAACCTACCCCGAGGGCGCCGCTACGAGTTCAACGCCGCGGCCGCGCCAACCGCGCAGGTCTACGGTCA
GACCGGCCTCCCCCTACGGCCCCGGGTCTGAGGCTGCGGCGTTTCGGCTCCAACGGCCTGGGGGGTTTTCCCC
CCACTCAACAGCGTGTCTCCGAGCCCGCTGATGCTACTGCACCCGCGCCGCGAGCTGTGCGCTTTCTGC
AGCCCCACGGCCAGCAGGTGCCCTACTACCTGGAGAACGAGCCAGCGGCTACACGGTGCAGCGAGGCCGG
CCCGCCGGCATTCTACAGGTACCCGCGCCCGCGCCCGCCCGTTCGGGGTGGCCGCGCCCGCCGCGAGGAGG
AGGGAGGGAGGGAGGGAGAAGGGAGAGCCTAGGGAGCTGCGGGAGCCGCGGGACCGCGACCCGAGGGTG
CGCGCAGGGAGCCCGGGGCGCGCGGCCAGCCCGGGGTTCTGCGTGCAGCCCGCGCTGCGTTTCAGAGTC
AAGTTCTCTCGCCGGGCAGCTGAAAAAACGTACTCTCCACCCACTTACCGTCCGTGCGAGAGGCAGACC
CGAAAGCCCGGGCTTCTTAACAAAACACAGTTGGAAAACCAGACAAAGCAGCAGTTATTTGTGGGGGAA
AACACCTCCAGGCAAATAAACACGGGGCGCTTTGAGTCACTTGGGAAGGTCTCGCTCTTGGCATTTAAG
TTGGGGGTGTTTGGAGTTAGCAGAGCTCAGCAGAGTTTTATTTATCCTTTTAATGTTTTTGTTTAATGTG
CTCCCCAAATTTCTTTCATCTAGACTATTTGATTGGAAATATGTCAGCTATGATGATGACTTTCTGGGA
AGCGATTCTGTACCCGCTTTCCCTCTCCTCCCCACCCACGTCCTGGGGCTTTAGAGAGCGATTGGGAG
TTGAATGGGTCTGATTTCCGAGTTAGCTGGCTGAGTCCGCGCTGGAGCGGATTGCTGGCATGTGACTTCT
GACAGCCGGAATTTGTAGGTGTCCCGCAGTTTAAACAAGCCATATGGAAGCACAAGTGCTTAAAAAT
AATCTCCTGCCAGCCAGTGACAAGCCTGTCCACCCGGGGAGAATGCCCCGGAGTGGCGTGCGGGTCAG
CCAGGGTCTGCGCCTCGCAGCCACTGTGGAAGGAGCGCGGCCGGTCCAGGACACAGGAGACCACTTTGTG
ACTTCAATGGCGAAGGTTGTGTGCTCTCATTTTAATTTTTTCCCTACAAGAATTGTTCTTTCTCCCTCT
CCTCTCCCTCCCATTTTCTCTTGCCAGTTTCTCCTTTTGTTTTTGTTTTTTGTTTTCTCCTGATGGGCCT
GCAGAGGGATTAGGTGGGCGCTTCTGGTGAACACCTTCCTAGGTGGCCACAGGACAGGTGTACCCCGGAC
TGGGTTTGGAAAGCTTCAGGGCGCCACATGGCTGGGTCTGAATTAGGCATTTCCCAACTGTACACTGGTA
TCCGGACTGGTGTCCCTATATCTTTCTGCCTTGTAAGCCGTGGACCAGTTTTTGTTCAGTATTCTGTTTC
CAGGGATATTTATAGCAGAAGGAAGGGGACTAAAGTGCAGTTTGGCCCCAGAGGATACTGAAGGGCAGAT
TCTGGGGGTATTAGTGTGCATCTTCAGCCGCTTGGAGAAATTTAGAGCATCCCACAGCCACGCAGATC
CAAGCTGTCTTTACTCAAAAGACAAACAATGAACAAGACTTTTAAAGGTTGGCATAATTTCAAATTAATTT
TACTTGTTTTAATTTAGGGTTAAACAGAGAAAAAGGATTTCTTCTGCCACCTTTTTTTTTTTTAAATGG
AAGAACAAAGTACAGCGATTAAAGTCTAATTCACACAACATTTAAAACTGCTTGATGTGAAGGAAGGCAC
TGGTATGATGTGAATTCATAACCTTATGATGGACTCCAGAAACCATTTTCTTCCCTATTTAATTTTCAG
TTCTTTTATTGCAAAATTAATGCTGCTGAATTTCAATGGGCACATAATGAGACTGCTCCTTGGTAGATTATT
TACTGCCTTGCTAATAATTACAAAGTGAACCTGGTCAAATACAGAGGGGATCGCATCTTATTCAAAATTG
TTCATCATCCCAGTGATAAGTGGTATCAGTGTAATATGCCCTATCTTACACTTTCTGCATTACATGATAT
TCAAACACTCTTAGAATAATAAAAAAAGAGACAAGGAACTTAAAAATTAAAAAATACTTGCACAAATG
GGACTCTGTGTGGAAATTCAGTTTTAGAATGATTTTTCTGTGTTTTATTTCCCGGATTATCTTTCTCTCT
TTTGTTAGAATTCTGCCTGTTATTATCCAGCAAGGAAAAGAAGCATCTATGCAAGTTCTTCATATGGACA
GATATTATTTAGTATTTTCCCTCTCAGTTTTTCTGCTTAAATGACTCTGGGTATAAAGGAAAGGATTG
ATTGGGCTCTTTTAGGAACTTTAAGTTTCTTAAGTAGTTCTCAAAGTTTTGGGGCTGAAAGCAGTGTT
TTCAAACCTGCTTGTGATGACCCAGAGGGTCATGAACTCAGTTTGTGAGTCTAGAATATTTTTTAAAGG
ACTAAATGGAAAGGAATATAATAGAAAATATCAGAGTGCATGGTATTTCTGTAAGGATAAGTTTTGTTTC
CTGAAAATCTGTTTTAATTATATGTGCTTCTGTGTGCTGATTGTGATGTAAAATGTATTTCTTACTGTGG
ATTGAATTCAAAGAAAAAATTAGAAAGCTAATGGCCTAAATATTATATGTTTCAGTAGAAAACAAAAAAT
TCAGGCAAGTGGCTGCTGTTTTTACCTATACAAATCAAAGGCTATTTTGATTGTCTTCATTTTCCCT
TATAAATTAGGTTGCTGTCTTTAGTCATTTAGGCTAAGTTTTACTATCTGATTCTTAACTTTTCTATTGT
AGAATGGTGTGTCATGTGGACTGTCTCCCGAATGTCCCACTGGATGTTTCAGAGAAATTTATGTGAAGGT
CACGTCATTTAGCATTGAGATGCTGTGGTTACCTCTTCCATTTCTTCCATAATATGCAGCCACATCTAT
GTGTGAAGAAATGTAATAGATAAAATTTCTCTGGACGCATAATAATGTGAGAAAGATTGTCACATGTCCC
AGCAAATTGTTATTAATATAAATTTGTTACTTGGCAAGCTGAGATTTTGCAAGATGTTACTCAAATTTTC
ACAATGAAGGAAACAGGGAGTCATCTTATCCTGGGTTCCTTTTTTAGATTTCAAACAACCTTAGGAACTTT
GAATAAACTAAAGATGAAGCTTAACATATCAACTATCCTTTTAAAGTTCTAATTAGGAATTTAATGC
TGCATGCTTATTTAGTTTTATTACTCAGTATTCTTAAAGTTAGACGTCTCTCACTTCTCCAAAAAAT

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TGGCAAATGTATAAATCTTTTGCATCAAAATCAATGCCCTGCTAATTTGTATCCTGGCCATCTGCATATT
TTGGACAACATAATTTTCCACTGGTGATCATTGAAACTCTTTCTCAACTTTGAATAGAGACTGATTTCC
AAAGTGAGATTTAAGTGACTAAGTTTCAAGTTTCCGATACATTTTCTTTTACTTAGATAACATTTTCAG
CCCCCTTCTTTCTGATCTTACTTTTTTATTAATTTAAATTGTTACTGATTACGTGACACTTTGTGCTGG
TCTAAGAATAGTCCAGAGTCACATATTCCTGGTGAATGAGCATATTTTCGGATGAAAACGGAATCACAT
CTTCAATCCCCATTTCAATTTTACCTCCTCCATGTGGCTTGTACCTGTTTGGAAAGAAAGCTCCTGAAGGA
TAATTGCCACTTATTCTAATCTTTCTCACACTCATTAAATTTGGATCCCTGGCTAAAGTTGTTATTTACT
TTTGTGATTATACTTAGTCTATGACATTCATAATTTGGGAAAATTCTCAGGTTTGAGAATTTTGGCGGCT
TGGGATTTCTTTTAGTTTCTTATAGTTTTAAGGATATGTAAGACAGGTGTAAGAACTGCCAAGGGGAGG
AACCATAGATATCAGGAAAACTAGAAAAGATGCCAGACTTACCATTAATGAATGATGAGACAATAGTAA
CTTTGTAAAGTGAGATTGTATATGTGAAAGTGGTATAGAACTAAACAAACATTAGGTGTTTTTATTATT
TTACTCACATGTAAATATTTGTTTTGGTGCTTTCATAGGCTAAAAAGCTGGGAAATAACAGATTTAAGTG
GTCAGGAATTTTGTATAAATATAGAATGATGATTATATGAAATCTTTTCTGTGAAAGTCAAATTTAAG
TAAAATCTTTATCACCATCTGCAACATTTGTCTGCAGCCTGGCTTACCAGGTTATCATAAAGAACATTTA
TTTTACAGATACATTAAAGAAAGTCAAAACCTGATTATGTGTAAACAATTTTACATAAGGAAATATATG
AATTTTAATTATATTTTCTAAAATCCGTACTCAGCATGAAATTAATACATCTTAACCCCTCCCTGTGAC
TTCATTATTATTTTAAATGTAACCTTTAGAAGAACCCAGTAGAGAGAGCAGCGTGCTAAGTGTGTTTTCTTT
CTTTTCCAGACAACCTTTGAATGGAGAGGAGCAAAATTAGTCTTTTGGTTTAAATCTGTCTCAGTTTGCTTA
TCTAAAGAAAGGAAAAACAGAGTGGCTACACTTGTTTAGAACCATATGCATACTCCAGAGAAAGATGCTCT
ATTAATCCAAAAAATACAGCCACTTGAAACCAGCCAAAGCGAAAGTGTAAGGGACTTCATGGAAAGGAGG
CAGTTCACCAAAAGTTATTGAGGGGTTTTATATTTTAACTCCGCCAGTGAATTGACGTGTAATGTCACCT
ACAAAAAAGTATGTCTGAGCTGTTTCGCTACTTCGTCTCTAAAATATACTCATACTGATCTCT
GAAATCCCAGAATTTAAGTGGGCTGGAGGTTACGGGAAGCACCTTTATAATATCCTTAATCTCATGAGGG
AAGAAACCATAATTGCTGAATTCTCTGCCTTGATAATATCAGGAGGGACTCTGAAGAAAGTTTTGCAGT
AATCAACAATGTTTTAAATTATGTGTATATTTTAGATCACCTCAAAAAATATAGGAAGCACAGAATGAC
AACTATTCTGGTCTCACTGACACAATTTTATGTAGTTTAAATAAGTAATAATTTCAAGAAACGTGGGCA
AATAAGAAAGAGTATGACTTTCTTACAACCCGCTTGTAAGTGATGTGGTGGTGAATGATCCATGATTT
TGATGATGACGATGATGATGAAAATGAAGTTTTGTCTCAGTTTGGGTAGGTGGTATTTCTGGATGCCTC
CTATGGACCCTGGAGATGTTTCATCCTATACAGAAATCCAATCCTTTAAATCTACTTGGCTCATTGTTTTA
GAATTCTAATTCATAGTCTGAAAATTTTAAATAATGATATTACCAATAATATTAGAACTTATTAAGTAC
CTATAATTGCTATACAAAAATTTAAAGAACCCAAAATCCAAGCAAGACTGAAAATTTTTTGTCTCTC
CTCTGAATATTTAGAGGGACAAATTAGTTTGTCTTATAATATCTACTTTAAATAAATGTGCCATCTTT
AATAAGATAGTAGACTTCTTTGTTTGGTAATGTTCTATTTTTTGGAGATCCTATGAGTTACACTTGGGAA
AATTATAAAAGTTCACTTAAAGTTAATAAAATCCATTAAGTAATGTTTCAGAACTAGACATTTCCAAATGA
GCCCTTGAAAAGCTCAGGTGGGTTCTTTTTGAGAGTTCCCAAAATGTTGTCAACCCAGGAGGAATGGAA
GACCTCTGCAGTTTGTATTTCAGATTCTCATCTCCTTCTCAGAAGCCGTAGAAGTGGCCGGGCCCTAAG
GTCCACGCTCCTTGGTTCAGTTCTGTCTTCCATCCTTCCGTCGGTCCGGGCTCATTCTGCCTGTTCTTAAAC
GGTGGCAAGTTAGGGGCCCCAGCAGCCAACTTGTGCTTACCTGGCACTACTTCTGGGCAGTTTTCTTGG
CTCCTTGACTTGTGTTGGGCGGCTTGGGATTTCTTTTATGGCCCTGAAAGCAAAAGACAATGTTCTCTTTTA
GTTTCCTGCAATTAAATGATGTTAGAAATAGTCATCTTACATTGGCGTACTTCCCTCTTCTCTGTAGG
TCTTTTAGAATTTGAGTCCATTCTCATATTTCTTGTTCATTGCTTTATTTTCTAATACATAGAAGT
TTAAACTCCCTTTAAAGAGTTTTTGGCCTCTTTTACCCTATTAAGCTTTCTTTTTCTTTCTGTTTTAG
TTGTTCCATCTGTGTATTCTCAGATATTTTTCTTTCACCTTTTCTGGTTTATTTCTTTATTGACCTGTCT
CATCTGTTATTTTAAATGAAATTTGGAACAGGGCTAAACAGAGTTCCTACCTCAGCCAGTATAAGAATATA
CCGTAATAACTCAGAGTGGTATTAAGTAGATTAAGTTTCAAAAAGTGATGTTTTTCTTGTCTCTGAGG
ATAGAACTTCAACAAAATAAAGAAGAAATTTCAATTAGTAGAATTTCTTTGAAAGTTTGTTTCAATTCAT
TCATTTGGCTACCTTATTCCAAATTGAGTCATTTCATTGAGGGCTTAGACTATATAAAGTGTGGTTTTGTT
TTCCCAGCAGTTCATGCAACAGCATTGCACCTAGCAGCTGGGAAGTCTTATAGCATGAATAGGTGAGATT
CTAATACCAGAATCTCCTGCATGTGTAAACTAACAGTGTAGTCTTGACTGTTGTCTCCAGTAAACTTGG
TTTCAGGAGTTTTAGATCCATGTGAACGTGTACAAGGCATTTTTGCTAACTGTAACCTCCCACTTAATCA
ACAAAAACAAAAACACTCATTCTGAACATTTCAGTGCATTTCATGATTAATCTTAATTACACCACAAAGGT
ATTTTTCAATGGTGATTTTTGCGGGAGTGGGGTAACAGTTTTCGAAAGCAACATTGTCAGAAACATAGTTGA
TTTTAAAGGTTCTTTCTGGTGACTTTGACTTCTGCTTTTTTAGAAGACCTTACACAGAGTTGTATTTATT
TCTCCTGGAATATTTCAAGCAATTTCAGAGTGAAAGGGTATACATTCCAATTTGCGTATGAGATAAAATTT
AGTTACATTGAGAAGCTATTTTCTTTAGTTACAGGGAAAAAATTGTAGGGCTTTTGGAAAGCCTCTTTGAT
TTCTAATAGGAGGAATCCCTGAGCACTGGTCCAAACAGAAATCATCTCTTCTTCATTGCTGTATTTCCCT
CAAGCTCTTAGCAAAGTGATGGCACGTGAAAGCCCGGAGAAGCTGTTGGTTGAAAGAATGGATGGTGGT
GGGCAGGAAGCATCAGGGACATGGTTTGCTTCAGTCTATTGGCTGGGAGAAAGGCCATTTAGGAAGGGAT
CCTTAGATGCCACTGGAAGAATGTGGGAAGTTGTGAATCTCTCTTCTCAGGAACAAAAGTAGAAAAAG
GACTCCACACAGCATCCAAGTACAGTCGGCCCTCATTATTTCATGGATTCTGTATTTGCAAATTCGCTGA
CTTACTGACGTTTATTTGTAACCTTCGAGTCAACACTCACGGTGCTTTCTCAGTCCTTTGCAGACGTGTG
GAATGGCAAAAAAATTTGAGTTATATGACGTATATGTTCCAGCTGAGGCTGAGCAAGGCTCACTTCTCC
TTGCAGCCCTCAGACTATAAACAAGTGTCCTCTTGCTATCTACTTCTGTGTTATGATTTTTGCAATTTTCA
TAATCCCTGTTGATGATTTTGCTGTTTAAATGGCCCTAAGCATGGTCTGAAGTACTGTCTAGGGATT
CTAAGACAAGGCTCTGACGTGTCTTAAGAGAAAAATACGTGTTTGATAAGCTTTATTCAGGCATGAGTTAC
AATGCTGTTGGCCATGAGTTCAATGATGGTGAATCAACAGGATATATTAAATACAGTGTTTTTGAACAGA
AAAACATATAAAACAAGGTTATGTATTAATGAGTTGGCAAAAATGCTGTGACCAAAGGCTCCAGGAACC
TACCCTATTTTCCCTCAATGCAATGGTTTCAGTATTTGCTAATTCAGTGTGTTGAGGTGACTTTATAGAAC
ATGAGTACCATGAATAATGAGAATCGATTCTGTATAATAGAGTGATGAAAGCACAGGTCTGGGAGCCAGC
AGCTATATTTCTATTCTGGCGTGACTCCTGTGTAGTTGTCATCACTGGCAAATGCTTAACTGTGTGCCT
CAGTTTCCTAATCTGTAAAGCTACATCGTTTGGATGATGTGAGGATTAAACAAATTCATAGATGTCTAG

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GGCTTATAACATTCCCTGGCACATAACAAGTCATTATTTTTTTTACTACTTCGGAAGGGAATTGAGTACT
ATACCCTGAAGAAGGTGAGTATGGGAATTCTCTACGGGTCTGGAATGTCCCTATATTTGTTTATTTTGCC
TTCAAGTGACTAACTTTAATACCCTATTGTGATTAGAAGTTAACTTCTGCAACCAAAAAGGAAGCAGGAA
GCTAGTATTTCTTGAAGTGCTTATTACATGCCAGGTACTGTGCTACAAAAACAAAACAAAACAACTGTAA
AAAAAAGTTCAAATTTGGCTGCGTGCAGCTGCTCATGCCTGTCATCCAGCACTTTGAGGAACTGAAGGG
AGGATTGCTTGAGTCCAGGAGTTCCAGACCAGCCTGGGCAACACAGTGAGACCCCTGTCTCTACAAAAAA
CAAAAACAAAACAAAAGGCCTCCAAATCAGTAAAAATTAATCAATCAATAAAAAGAGTGAGGGGCATTA
AGTATTGTGGACTGAAGCAATCCCAGAGAGGGAATTAATTGAAGCTGAGGTAAGCAGCTTATGGAGAAGC
TATGATGTACAGAGGGCAAGGAAGGAATTTTTCTGTAATTTGGAAAAATGGGAAGTGTGAGAAAGAAGGA
GTTGGAAGCTCATACTTAGGGAGCATCTACAAGGACGTCTTTTTTACGTTGGTTGGAATATCCAAATCAA
GGATTATTTTCAAGATCAGGAGATGATTAAAAAACTACTGAGATCCAGGTTGTATTTTACGAGTTCTGAC
AATTGCTCTGGGTGCAAGCTTGAATCAGTAGTTAAGAAAAACAACAAAACAAAACAAATTTTGGGGCTTTT
CTCACTGATTTACAGTTAAAGCTCATTACTCTTCTTATGACTTTAGATGGAGGATATTTCCAAGTCTTC
AGGATGGAGACATGGAGGGAAGTGAGACTAGTGATGTGCCTCAAGGTTTTGCTGTTGTTCTAACCATGAG
GAGCACTATTCAAACCCAGGTCTGCTAGATTTCCAAGTCTTCATTTTCTTGGGGCTCTTGGATTTCAGAA
GCAGAGGGTAAAAGGAGTGCTGGGGAGAAAGATCACAGTAGCTTTCAATTCTACTCCTCAGCTTTCCAAA
ATAAGTTTCAAGACTGGCCGTTGCATTTGATATGGAATAAATACAAAGAAGGTAGATTGAAGGGTATGAA
GATGCAGATTTTGTATACAGATATGAAGATAACATTAGGAAGCAATCTAAAAATGGACACAAACACAC
ACCTGTGCCAGTTAGCCTGTATAATTCGATTTTTTGTAAAGTGTTAGATAACTGAAGGTAATTTAAGCCC
TCATATCTTCCCTTCATAGGGTTCTTTTTTCCCTCTGGTTCATCAGAGAGTTGCCACCAATTCAGGCTGTT
AGTGGTACACATAACCTCTAGCATTGTTGATACAGCTATAAAATCCCAAATATCAGTACAATTGTTGATT
GCATAAAATTTCCAGTTGCATGGTTGGAAAGTCCCTGTAAGTTTGAATCCTTAAACCAGTCTTAAATGTGG
AGGAGGACTCAATTAAGCTCTCCTCGTGTCTCCCTCTGACGTATTTGCAAAATCCTTTCCACAAATAG
AATACTGTTTTTAATGCTTCCCCAGTCCAATTTTGCCTGTGTAAGACGAATTTATGGATGAGGGAAGTG
GCATTTCAGGCACTCCAGCTTGGTATAGAAGCCCATGGTGTCTGGTCTCAGTCCCTCAAGCCCGCTCATT
CCTCATGTGAAGTCAAGATAAGCAGCTGAAAGCAAGTCTTCAAATCTCAGAGATATGTATAAATGCAAG
TGTTTTGGGTGAGAAGTGAACATGGGTCTCCTCTAGTGCCACACTACTTGACTAACAGGTTTTGGGCTCC
ACACAATGAGGGATTATCAACCCCTGTCCCAGGGCTCTCTGGGTCTTGGTTCTTTGTTTTTGATGCTCAG
CAATTGTGATCAGTGAAACCAATGTTGCTTTTCTATCAAGAGTCCAACCCCTTTCTAAGAAGGGTTGTGT
TTGATATTAGGGAATAGCTAGCAAAGTTATCAAGTAACTGTAGAAACATTCTTTGCAAGAGTTCTTAT
ACTGAATGACTGTAGTTGACAGCAGTGCAGTACTGGTCAATTTCTAGGACATCTTAAAAACACTGATGAG
AAGTTTCCCTCTCAGATGTCTGTCTGTCATTCTTGCCTTTCTCTACACAGGGTCAGTTTTCTCTTATTGC
TGTTAGGAGTTCCCTCATTGGTTTTTTCAGCTTTTGGGCTTTCAAACCTCTAATTAATCATAAGCTACTAGAG
TGTAATACCTAAAGTGTGTATATACACATATATACACACACACACACATATATATACCTGGTATACAT
ATATATATATAATATACATATATCATATATACTCCCCAACCTGATCTGGTTCTTCCCTCTGCATAAAAGAC
CTCAGGCCAGTCAGAGAAAACATGTATGTTCCATGGTGTGGCAATCAAGCCCTTGATTTGGTTCCAATC
AGTCTCCTAACTATTACTCCAAGAAGCTCTTGTGAAAGAGCCATGTTTAAATGGCATGTTCCCTACTTTC
TTCTTCATAGTGATCTTCATCTGTACCATGTACCCTTCTTCTTCTTGTTCATCTCTGTTAGGCTGATT
CTACCCAGAAGTCAAGGTTTCAGCTCAAATGCTATCCCTATCAGGTGAATTTTCCACCTGGCATTGTTTCG
GTGTGCATTGTGTGCATACAGCACCTTTTCCCGGTACCTTTACTGTAATCACCAGATAATTCCTTTTCAAT
TTAGTTGTAAATAGAGTTGTCTTCCCCCTCTATGGAATAGATTTTATTAATGTATAGAGCAGCAGTCCCC
AGCCTCTGGACCATGGACTCGTACTGGTTTTGGGGCTGTAGGAACTGGGCGCACAGCAGGAGGTGAGC
AGTGGGCATGCAAGTGATGCTTCATCTGTATTTACAGCTGCTCCCCATCGCTTGCAATTATGCCTGAGCTC
CGCCTCCTGTGATCAGCGGTAGCATTAGATTTTCATAGGAATGCAAACCTACTGTGAAGTGTGTATG
TGAGGGATCTGGGTTCTTCTTATGAGAATCTAATTCCTGATGATCTGTGATTTGTTCCCATCACCCTCAG
ATGGGACTGTCTAGTTGCAGGAAAACAAGTTTCAGGGCTCTCACTGAATCTACATTATGGTGAGTTGCATA
ATTATTTTCAATATATGTTACAGTATAATACTAATAGAAATAAAGTGCGCAATAAATGTGATGCACTGGAA
TCATCCCCAAACCATCCCCAGTTCCATCTGTGGAATAATGTCTTCCATGAAACCGGTGATGGAAGTGGT
GCCAAAATGTTGGGGACCACTCTTATAAGGCATATTAGAGTAATTTTCATAGATTTCCCTAATTCATTTAT
CATATTCATTCCTCAGCAAGCATTACTGGATGTTGATCATGTACTGGCTTTGGTGGTAGGTGCAGAGAT
TGGGAACATTGTCATCAAGGAGTTTATGGTTGAGTGAGGGAGATGACAAGTGGATAGACAATGAAAAAAC
AGTAGAATAAGAACTGTGATAGAAAAGAGACAGCCAGGAGCATTGAGGAGAGGCACTTAACCAGATGGAG
GATCTTGGTCCATTGATATGGAGGTCAAAATGGTTTTAATAGAGCAAGTGACCCCTTCAACTGAATTTTTT
AAGAATGAGGATTTAGCCAGACAAAGAAGGGCAGGTGAGGTTGTGAAGAGGAACTGAGTGGTACTCTTCA
GAGCTCCAGCCCAGTTCCCTTGGACAGAATAAATGCTTACTAACTTATAGAGCTGAATATTGAATTAATAA
AATAAGGGTAACTGTTAAGAATCAGAGAAAATACTTAAAGAACACTGATAGCTAGTGTTTTTTGAACAC
CATGTACCCAGGTGCCTTGGCGAAAACCTTAATGATCATCTTGTTTAAACCTTACATTTCTCATAAGAGG
CTGGTACTATTGTTATTCTCATTATTTATGGGACGTAGAACTAAGACTTGGAGAGGGGAAGTGACTTGCCC
AAGGTCATACAACCAGTACTGGAGAATTAGGGATTCTAGATCTAGAATTTGGACTCTGGAGCTTAAGGTT
TTAACCCACGACATTATGCAGAGAAATTGACAGGATTTTTCTGTTGCTGATCAATTTACTTGGCAGTTAG
TTTGTTACTTCCCTGTCTTTATTTTAGTTGTGACAATGCTTTCATCTTAGACTGTGTCCCGAGGCTGCTG
CTTTTATTTTTATGGGAAATGGCTATTTTTATGATCCTTGCTAAAAGCATGTTTAAACAATTTTCCATTA
AGTAGGGGGATGTTTTTCTTCTAATATCAGAAGCCAATAAATGAAATCTACAAAGACTTGCTGGTAGC
AACCTTAGGAATTTCTTTGCATGTGAAACCCATCTGAGAACTTAAATCTGGGTAAAATTGTAGTGTAAT
TTGGTGCAATCGTCTCTTTGCACAAATAACATCATAAAATCATAGTATTGTCATCTAGGAGGGGCCCTTAG
ACATGATGGAATCCTACCTTTTATATTTTCCAGGTGAAGAAATCAAAGTCTAGAAAGGTGAAGGAACCTC
CCCCAAAGTTTCCCAGCTGGTAGAGACAGAACCAGGGCTAGGTCCTCTATTCTGACTCCTGACCACTACC
TCACACCTAATAGATGGAGGCATGCCAGTTTCTGTTACCGAGGGCATCAGACCATGCCATACTCATTG
CTACTGTTCCAGCATTTATAGTAGAAGCTCAAGCAAGCAGGATGACAGAATACCTAATTCTGGTCACTAC
AACATTATAATGATGGCTAAAGTGAATGCCCCAGCCATGCTTGTCTAGACAGGCCATCTGTTTAATTGGT
ATATGGTTCACGTGAGAATTTTTAACCTCTGTTTGTGTCAGTCGGTGTTAGTTCTCTAGTGATGAATTATT

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TCCTATACTTCCATTTAGATTATTTACTCTTAATTTAATAACCATACATTGTTTACTTTGGTATTGAAGA
TTCCCTTGTFTTTCTTCTTTTTTCTGTTTCCAGGGCTTAAAGGTTAGGAGTGACCTTGCCAGACTTCCC
TGGAGACTTACACTGTCTCCTTTTCTGAGATTCTGAAGCAGTTGGGTGCTATTTTTAGTCCACTATCACCAA
TGTGAAAAATGGAACCTTGCAATTATTTTATTATAGATATTTTCACTTTAGTATTGACAGAATTAATAAATAA
TTTGATCTGTGCTTGATCTAGCAGCCAGGTTACAATAGACATTTTTAGTTACCTGGTCCACATGTTGAAA
AACATGTGTCTTCTCTGAGACTAATGACTAAGCCCCGATGTTGGTTATATACTGTTTACTATTAAATTTTC
CCCTTGTAGTTTAAATATTGTTCCAGGAAATGAAATGAAAGTTTAAATAAGAATGGCAATTGATGGACCCAT
ATGTCGGAAGTATAACTAATGTCCCCGTTACATGTGTTAAAGAAAGGCATGGCTGGTGGGTTGTAAGTGT
ACTACACCAAGATGATTTGACACAACCTATTCTACAGAGATATATATTTATCAGGATAGAATTTATAACT
AAACAAAACCTATAGCATTTTTTTCACTTTGATTTTTTTTTAAATGAGTCAAAGAACTGCTAGAATTGTCAGT
TAAAAAATTTTAAAAGGAGATATGAAAAAATCTTACAATTCACAATGCTGTAAAGAGATAATGTAGGGAT
TAATATGTTCTTGATATCAATATTTTATGACTTTTATACATGTAGAAGCAAAACAATTTGAGGTAGGTGA
AGTTAGTATGGACTTCTTGAGATTGTCTTCACATTTCTTTTCTTTTCTGGTGAAAAATTGAAGGCCAAAA
TGTATTTTCTTCTGGTTTTTGAATACTGTCAAGATCCTTGCAACAAAATGAGTTCCTCTAAGGAGCTGA
AAACAAAGCTCACTCCCCCTCGTGATACTCTGAGAGGCTTTGCTCAGCATCCTGCATTCTGGTGATTCTTT
GGAGACAGATGATGCTAAACACAGGAAGATTAGGTCAATGGTAACTTTTTCTAAGTCAATATTTCTTCTC
CTTGGGAGATGATCATTTTTAAATCTTCCCGAAGTCCAGGCTAAACCTTTCTAATTGAATCTCCATGAAGG
AGAGCTCCAGCAGGTGGAGAGGAAGTGAGAAAAGAGAAATGAAAGCTGCACGCCCTCATGACGCTGTGCCAG
GGAGTTCTTAAAGGTGAGGGAGTTTCTTTTTTGGTAACCTAAGCTATGTGAATCAGAAGGTTTATTAGCTT
GTTTCTTTTTCTTTTTTGTAACTCCTACATAATTTTAGTAAACAGGAACAGTAACCTAATGTGATATCC
CACTGGCCCCAAGACTTAGTGCATCTTCAAAGTTGCTTAATTATGTCCGAAACAGACTTTTGTCTCTTGAT
GAGAAAAGCATGGTTAAACGTGTGATGATTTTCTTATTTGCTCTGAGCTCAGATCTGTAAATTGTGGCCAGAT
TCATGCATCTCTGCTGCCCTTCTCTTAGAAGAATCATATGTAGGCTTGTGAGATAAAACAGGATGCCCAGG
TAAACTGGAATTTTCACTTAAATAACAAATAACATTTTAGCATGTCCCATGCAATATTATACTAAAATATT
ATTTGTTGTTTATCTGAAATTTCAAATTTAATTGAATGTCTGTATTTTTGTTGGTTACATCTGGCAGCCC
TAGCCATGCTGCCCTTCTGCTTAATGGGCTTAATTTTTTGAAGGCTGGAGGTTTCTGTTATGGTGCCCG
TTTCCACCTGCTTTTTCTACCAGGAAAGGAGGCATGCTGATGTAGAATTTGCATCCTTATTTTTTGTCTATTA
TTATTGATTATAACAGATGACATAGGTTTAGATTAAACCTACAATGACATTGCTGTCATTTCAGATAATTG
TAATTATTGCTAATTGTAAAGAAGGATAATTTTTTTTGAATGACTATTATTTGTTTTTTGTTTTGTTTT
TTGTTTTTCTTTTTTCTAATTATACTTTAAATTTCTAGGGTACATGTGCACAATGTGCAGGTTTGTTACA
TATGTATACATGTGCCATGTTGGTGTGCTGCACCTATTAACCTCATCCTTTACATTAGGTATATCTCCTAA
TGCTATCCCTCCCCCTACCCCCACCCACGACAGGTCCCGGAGTGTGATGTTCCCCACCCTGTGTCCAA
CTGTTCTCATTGTTCAATTCCCACCTATGAGTGAGAACATGCGGTGTTTGGTTTTTTGTCTTGGGATAG
TTTGCTGAGAATGATGGTTTCCAGCTTCATCCATGTCCCTACAAAGAACATGAACTCATCCTTTTTTATG
GCTGCATAGTATTCCATGGTGTATATGTGCCACATTTTCTTAATCCAGTCTATCATTTGATGGATGTTTGG
GTTGGTTCCAAGTCTTGTATTGTGTATAGTGCCACAATAAACATACATGTGCATGTGTCTTTATAGCA
GCATGATTTATAATCCTTTGGGTATATACCCAGTAATGGGATGGCTGGGTCAAATGGTATTTCTAGTTCT
AGATCCCTGAGGAATCGCCACACTGACTTCCACAATGGTTGAACTAGTTTACAGTCCCACCAACAGTGTA
AAAGTGTTCCTGTTTCTCCACATCCTCTCCAGCACCTGTTGTTTCTGACTTTTAAATGATTGCCATTCT
AACTGGTGTGAGATGATATCTCATTGTGGTTTTGATTTGCATTTCTCTGATGGCCAGTGATGATGAGCAT
TTTTTCATGTGTCTGTTGGCTGCATAAATGTCTTCTTTTCTGAAAGTGTCTGTTTCATATCCTTCGCCCCT
TGTTGATGGGGTGTGTTTTTTTTTCTTGTAATTTGTTTGAAGTCTTTGTAGATTCTGGATATTAGCCC
TTTATCAGATGAGTAGATTGCAAAAATTTTCTCCCATTTTGTAGGTTGCCTGTTCACTCTGACGGTAGTT
TCTTTTGTCTGTGCAGAAGCTCTTTCGTTTAAATTAGATCCCATTGTGCAATTTTGGCTTTTGTGTCATTG
CTTTTGGTGTCTTGGACATGAAGTCCTTGCCCATACCTATGTCTGAATGGTATTGCCTGGGTTTTCTTC
TAGGGTTTTTATGGTTTTAGGTCTAACATTTAAGAAGAAGGATACTTAAAGTATAAGGGAAAATGTTACA
ATGTATGAAGGGAACATGAAGAAATAGAATCTGGTAAAAAAGAGTTCTTGCTTTTGGGAGGCCAAGGCCT
CCTGGCTAACATGATGAAACCTCATCTCTACTAAAAATACAAAAAATTAGCCGGGCGTGGTGGCACACGC
CTGCAGTCCCAGCTGCTTGGGAGGCTGAGGCAGGAGAACCCTTGAACCCAGGAGGTGTAGGTTGCAGTG
AGCCAAGCTTGCAACCTGCACTCCAGGCTGGGCAACAGAGCGAGACTCCATCTCAAAAAAAAAAAGAAA
AAAAAGAGTTCTTGCTTTTCAAACTATGGATTAGGTAACCTTTTGTGAATGAGTAAGATCATGAGTATTAT
AAAAATAGCACCTTTCTTTTTTGTCTTGGGGAAAATTATCTTATTTTTTAAATTGGATTTTCAAGAAAGAGTA
TTTCAGAGAAATAAATCTCTGAAATGCTTTTTTGAAGTGTGAAAGATTTAGAAGACAAAAGCAAACCTCCT
GTCTAGATAAAACATTAAAGAGATCTGCCCTCCCCCTCCTCTACCTATTTCAGGTTGCAACACTTTGGGGGTG
GCTGCCTTGGTAGAGCTTGATCGTGACTCTGGTGGCTTGGGAGATGGCATGCTGCACAAGGGATTTCATGG
TTACAGCGGGCTTGTGGGACTGGGGCTCTCCAATACGTGGTTGGGTTTTGTAAAGAAATCAGAGCTATGGT
GTGAACAAAAGGATATGCATGGGAGACAGTGAGACAAGGAAATGCTCCAGAAATTATTGGAATATAGGTC
AGATAACTAACTGTACTTGTGCCATTTTCTGGGGGAAAATTTCTCTGAAGGCTTTTTGGGAAAAGAATGGA
AGTGAGAATTCTCAGGTCCCTCAAATATTTCTTTTACTCAGTCCCTAACCTGAGGCCGTTAAAGAATTCC
CAGAGTCACGATGGAAGGCATGTTTGGGAGTAAGAGCCAGAGTGAGGGTTAGAAATGTGTTGTTGGCCAG
GTATGGTGGATCATGCCTGTAATCCCAGCACTTTGGGAGGCCAAGGCAGGTGGACCACCTGAGGTGAGGA
GTTTGAGACCAGCCTGGCCAAAATGGAGAAACCTCGTCTCTACCAAAAATACAAAAATTAGCCAAGTGTG
GTGACACGTGCCTGTAATCGAGCTCTTCGGGAGGCTGAGACAGGAGAATCACTTGGACCCAGGAGGTGGA
GGTTGCAGTGAGCCAAGATCATGCCACTGCACTCCAGCCTGGGTGGCAGAGCAAGACTCCATCTCAAAAA
AAAAAAAAAAAAAAAAAGAAAGAAATGTGTTTTCCAGGGTCTGGGTACTTAGGAATTTGGTTGCTTTTTGC
AGGTGGAAGTGGAGGTGACTAGGTAACAGCTGAGTGATTTTGCCCCAGTTGGACATGAGCCAGGTGAGC
AGAAAGCCCTGGGATGCGGGGAGGGGGGTGGCGGGGAAGGAATTGAAAGTTGGTTGTGTGGTTTTGGCTTT
GGCTTCATGGCATGCTCACACCTTGCTTCGCATAGCATGCTTAGACTACAGCAGGAGCATCAGGAAGTGG
ATTTCTGAGCTCAATACAAAAGTTATAAATACCACCTATAAGGGCAATAAAGATATATAGTTGATTTTC
TTCTTTGCAAGGCCAAATCTTATAGGAACATAAGAGCGAATGAGTTACAGCCTGGGAATTTGAGCCTTAT
ATTCAGAGATTTTAGGTTGCTTCTGATTCCGCTGTCTAGACAAAACCATGAGAGGATAGTGTCTAGAAAT

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GAGAGGAAGCTCTTCCAATGCAGAGGCTAGAATGTGTCAGCCTGTGCTGCGAGGCCTGGGATAGATGTTT
CTGAAAAGTAAAAGGGCAGCTTTCCCTACTGGATACTTGATCCTCAGGCTCTAGAAAACCTCTGCTTTATTA
ACTTTGTTGACTTCCTAGGCACCACATGGGATCCTTGTCTCCTCCTTGTAAAGCAGTAATTGAAATCAG
TTTGGCAGCCTGGTTTACAGTGACCATGGTGGCTTGTCTCCCGTCTTACCTCACTCTGTTGATGTTG
TAAACCTCCAGCTAAGTTCATGGGGTGGCTGACCCACGTTGCTCATTTATTCATTCAACACATATTCAT
TGACCATCTACTCTATGCCAGGTATTGTTATCAGCACTGGGAATAGATCAGTGAAGTATTGATCTATTG
TCTAATGGGACAAATTGACAAATTGGGAAAGATTCCATTACACAGGTGACATTTAAGCAAAGTCTTGAAT
AAGGGAGGGAATAGTACCATGAGATATCCTGGTGAAGCAATTTAGGCTGAGGGCACAGCAGGGAAGAG
GCCCTGATGTGGGAACATCCCTGGTGTCTTGAGGTACAGAGGCCAGCATGGCTGGCACGGAGTAAGAAGT
TGGAGGTGCCGGGCATGGTGACTCACACCTGTAATCCAGCACTTTGGGTGGCTGAGGCAGATGGGTCAC
CTGAGCCCAGGAGCTTGAGACCAGCCTGGGCAACATGGTGAGACCCCATCTCTACAAAAAATACAAAGA
AAATTAGCCAGATGTGGTAGCATGCATCTGTAGTCCCAATTGCTTGGGAGGCTGAGATGGGAGGATCAAA
TTACTTGGGAGGCTGAGATGGGAGGATCACTTGAGTCCAGGAGGTGGAGGTTGCAGTGAGCTGAGATCAT
GTCAGGGTGACAGAGCGAGACCCTGTCTCAAAAAAAAAAAGAAAAAGAAAAAGAAAAAGAA
GTTGGAGGTGAGTAAGGAGAGGAACGTGGGGGACAGAGTCTCAGGACTCTGGCTTTTACTCTGAGTGAG
TCGAAAATCCAATTAAAGGTTTGAAGAGAGGAATGACCTGATCTGACATTTTATTGTGAACGTTTTCAA
ATCTTTACAGAAGTGAAGAGCATAACGATCCTTCATGTACACATCGCCAGCTTCAACTATGATGTTTC
ATTTGTAAATATTTCCGTCTACACTTCCAAAGGATGATGACTATTTTTAAAAGTCCAACTATAATACCAT
TATATTTTAAAAGTTAAAACACTATGTCTTTAAATATCAAGAGTTTGTATTGATTTCGCACTTTGAAGGTC
GAGCTGATGAAATTTCCCTGAGGGGTTGGATGTGACATGAGAGAGGAGTCAAGTATTGCATGGTAATTA
AACCTTTGCAGCATAGTCCATTTACCGAAAGACTATATGTATGCACTTCAAAGCAGGTTTTAAAGATTAA
CATCAAGCATCTGGCTTCATGAGTTTTAACTTCTTTTTATAAATGTTATACAATGTCATCATCTCTCCAG
CTAGAGAAAAATGCTATTATTCTTATTTTCAAATGAGGAAAATGACGCAGAATTATTTACATATTATGTAA
CTTGGTCCCAAGTCCCTTAGATACTGGTTTAGAAAATCCTAGTAAACTGGAAGTGACTTATCCAAAATTA
AAATTTATTTTGCTCTATTGTCTTTTGTGCTTATGGGAACCTTGTGCAGGTAAGTGGCACATGTCAGG
ACTGATTTACTGACCTCTCAAGGTATCTTTAATTATTTTGGGGGATATCACGGAATGAGTTCTACACAAT
TCATTTGAATCGAATTGAAGTAAAGAAAATTCAAATGATGCATTGGCTGCCTCCTATTTATTACATGCTG
CTCATAGGCATAACAGCATAGTCTAACAAGTATAAAACCTGTGTAAGTGTAGCTTTTCAAGTGCAGTGTGAT
GAGGGCTGAGAAGATAGTGGTACAAAGAAGAGAGGTAGCAGAGTGAAGCTGAGTCAATATGATGAAGATT
TCTCTAGACTTGAAAGGGCTAGAAAAGGTTATTCTTGGCAGGAAAAAACATGAGCCAAGGCATAAGGAT
AAGCACAGGCATGGCAGATTTGGGAATGTCATGTAATTTGTGCTGGGCTGCAAAGTACATGGAAGGGGA
GTGAAGGAACAGAAGGAGATGAATCTGGAGGGAGAGGTTAAAGTGTTCAGAGAGCAATATGTAGGTGTT
ACTCTAAGTCAAAGAGGTGTAATAGCATGTCCAGACTCCAAACTCTAAACAAGTCATAGAATTGCTGC
CTTGGTAGGGCATATCACACACATCAACCAATCCTCTGTACCATGACATCCATATAACTGCAACTCTA
TACATTTCCAGCCTATGTTCCAGAGTCTCCAGATGACATTGTCTGCAAAGTGCAGTGCAGAAAGGCTCT
GCTATGTCTCTTAAAGTAAGCAAGACTGTTTTCTTTGTTACATGAGCAGCAAAAGGATAGGGTGCTC
TTTGACCTCACTTACTGTAGGGTGGATAGGAAAGTCAAGGAAGAGTAACCCAGAAGATTTAGTTTAACT
TTCCGATCAAAGAGGTCCCTTAGCATCTGCTCAGAGATGTCACAATTTCTGGTGTGTGATTATGTTAAG
AATTCGGCCTTGCCACTGTTGAAGTTGTTCTGTGGAAGAAAGAACCTCTCTTAATTTTACATGATGCCAA
CTTCTCTTTTATCCAGAATCACTCATATGCTGTTGGACTCTTTCCAGCCATGTGTGCTAACCTAGGCAA
TGTCATAATAGATGAATTATGTTTACTTTGCTTTGATATCTCAGCTCTTTTATCTTCTATTCAAGTCC
CACCTCCATCATTACTGATAGTGTTGCTGAACAAAGAATATGTCAGATATACAGAAGTGTCTCCCCCT
TTTCTCTGCTCTCTTTTCTCTTCTTTCTTTAGTTTCTTTCTCTGCTGTTTTCTGATGCCTCATTTT
AGAAAAGTGATTTTTTTTGTGGGAAAATCATTTTAGCATTAGAAACGCAATGGCTATCACTGACAGCTTC
CTCTGATGAAACGGCCATTTGTATCATTTACACGGTCACTGGGAGTGCTAAGAAGACTTAAATGCAGGGCT
ACCACCCCTTCCCAATTCATCTTTTATCCATTTTATTTCTCTAAGGAAAGGGTTTGAAGAAATGGGCTTTG
CCCTCTTGGATGCAGTGAAGAAATTCTAGCTGGCTACAGATGTTATTGTTGGTTCGGAGGCAAGGGATAAA
ATCATGGTCACACCATTTGTAGCGCCAGATGGGGAATGTAGCAACATAGTTGTAATTTCTCATTTTACAG
ATGAAGAACTGAGGTGCAGAGGGGTTCCGGTGACTTGTGTTAAGGCATGTAATTGTTATTGGCAGCTTTCT
GTTTCAAGAACTAAGAGTATGAGTCAGTCTAGATCTTTTCATCACAATACTCTGCTCCTCTTACTTTTTCC
TGAAATTTGTACATTTGACAGCAATGTGATCCCTAATGACACACAGATTTCCCAAATAATTTTTGTAGTAA
AAATTTCCATTTGCAATTCTGGACATGTGTGTGTGTGGAATTTTATGTGATGACATATTGGTCCATCTT
TTGAATAGGATCATAAATGAAATGACTTATGGATCACATTCAAAGCAGGCCAGGGGCCAATGTGTAAGC
AGGTGGGTTTTTCAATTTGGAGTTCTGTACTTTTGTGTTAGTCAAGTGGGCTAGGACTCTTGTAGTGTAT
TTCCCAAGGGCCAAAGTCTTCTGCCTTGGAGGTGTCAGCTTTCCAAGGCAGAGGCTGGATGCTTTCTCTTC
CTTCTGGGCTCCTTTCTCTTAGGCTTCCCCCTTCTCTCTCTCCATTTGTATCTGTCTTTTTCTCGGT
ACTTTCCCTGGCTGGTCTCAGCTAGATGCTCACTCAATGCTGTTGAATAAATGAATGAATTTTCGTAGTAA
TTCTGCAGGTAAATCAAGTTATTGTCTCCCAATACGGTGCTATGCTTTCTGAGGAAATTAGACTGGAAGT
CAGGCTTTTTTAAAAAGAAGATGTGGTGTCAAATTCAGCTCTCTCTCTCTCTCGACTTACCTTTTTTCT
ATCATCCATATGCCTTCTTTCTTGTATCTTTGGGTTCCAGACCTCACCATTCTAGCACTTGAATGG
ATTGGTAAGAAATAAGAAAGGAGAGGTGGTGAAGTCAAGCTTGGGTCATCTGGTTACACATTAGTAACTG
ACAAAAGATAAAAAGATACAGACTAAATGGGTTTTTAGGGAACTTTTCCAGTCTATTCTTGTGTTCCCAT
TAGTGTGAAAAATCAACACTTGCTTGTATTTTGGGGTGAAGACATTTTCTTAAGTGAGTGGGAAAGCCT
CTTGACATTTTACCGAGAGCCTTAAATTTTGAATGGTGAATGCTAATGTTCTTTGTGCATAAAGAATTT
AGAAGTTGTATATATGAGCATTAAATGATGCATCATTTTCTATTTGTGAGTTAACTAGGTATTATCTGTA
ATCATATTTTATAGGAAACATTCAAACTTTTCATCAAGTCATTCTCTTATATGACTCTCAGCTCCATTAAGT
CTGTTTTTCATGGAACCTCAACAGAGTCTTAAACGTTTGCATTATAAATTAATTTAGCATTTCCCTCAAAG
AAGTATTGCTGTCCTTACAATAAATAATTGTAGACAATTTCTTTTCTTTTCTTTTTTTTTTTTTGAGAC
AGGTTCTCTCTCTGTACCCATGCTGGAGTGCAGTGGCACAGTCAAGCTCACTGCAGCCTTGACCTCCT
GGGCTCAAGCAATCTTCCACCTCAACCTCCTGAGTAGCTAGAATTATAGGTGCACACCAGACCTGGCTA
ATGTTTAAATTTTTTGTAGAGTTGGGGTCTTGCTATGTTGCCAGGCTGGTCTCTAACTCTTGGGCTGAA

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GCATTCTCCACCGCAGCCTTCCAGAGCAGTGAGATTACAGGTGTGAGCTACCATGCCCAGCTAATTGC
AGGTGATTTCTAATGGGATTTAGTATTTCTGGGTTTAAGGATGAGATCTGAGGTAATGACTTTGTTTCCA
GATGTGAAATAATTTGCTCTTGGGTTGTGAGCCCTTTGGGTGGGCTCCCAAGGATCCTGCTCTTCCAG
GAGCCCAGGCTCTGGGGTCAGACTGCCTGGGTCTTGACTCCCTGTTTTCTGATTGTACAACCTTGGTGA
GTGGCCTAATTCCTCTGTGCCCTGGCTACCTTGCTTACTATTTCTAAAACAACCTGGTGTGTAGTAGTAC
TGCTTAGAGTACTTTCAAGGGTTAAATGAATTAATCCATGTAAAACGCTTAAAATAGTGCCTGCCACAAC
CATCAATTTAGTGTGAAAATCTGCTCACCTGCTTGCCAGCCCCCTTCACTTTATTAAACCAAGGGTCGT
GCTGGGTTTTCCAGAAGTCTAAGTTGCGGTCTAATCTTTGTGCAGAAGCTGAAATAGCAGCCATAACGTT
CTCCCTAGATGATTTCTGTTGAGCTTCTTTGAACTGTATCTATCTCCAGTCATTTTGTGGAAGAAATTTT
CTTCTGTACTTTTTAGGGATGAGAATTACCTGCCTTGCTTTATTAACATAAGACACCATGATTACAAAT
AAAATTAAATAAATATTGTATCACTAAATAGATAATATGAGATAGATGTATTAAGTTTTAGATAAACAG
TATAAAGAGCTAGAGTAATTTGTAAAAGTTGGGAGGACCTATTTTGTATGCAGGAAACAATTTTTAA
CTTGCCCTACCCAGAACATAGCTACCACATGGTTAGGGTTTGCCCAAACCTGGCCCAGGAGTCATTTACC
TTGAGCTTTCTAAAAAGGAGGATCAGGATTTTCTCTCCAGACTCTATCATTTTAGGTAGAGTCCTTCT
TGTCATTTCTTTTAAGAACATACATTTACTTTTGTGGAAAATAAATAGATACAAAATAAATACATACAA
AATTGCATAGCAATTAGAAATACCCAGGAGGTATGTTATGGTCACAGACACAACTGCCTCCAACCTCTG
TCCATCCATAGTGATATTTAAAGCAGAGAGAGGTACACAGGTAACCACATTTAGATGGACTGGGATGTTG
CCACACATACAAGCATTGATAACTGGCTTCTCATTACCTGAATACATTCTTCTGTCAGAGCAACAGACTC
AGCTATGCTTCTGGCAAAATTTGTTCTTAATTCTCTATTGATTAATTTATTCGGTAAGTATTTATTGGGTA
TTTTCTGTCTGAAAAGTGCAGTTCCAGGTGCTTTATGTGTCTCTGTGTGTGGGTGTTATATAAATACTTA
TAATACTGTATCCATACTCTTGAAAAGCTTAGTTGGGAAGGCAAGGCATGCAATAAGGAACACAGAATTT
TAGTCATTCCACAACCATCTGTTGAATGGCTGCTATTGTTAGTATCGTGGTGAAAACCTGAGAAGCAAAGA
TGACTATAATAGGATCTCTTTTCTGGAGATGCACAGTGGACACGTAGTTATATGATGATGATAAGGACTC
CAGAATAGTTCTATACATGATGCTCTGGGGCCACATGCAGATTCTGATGAGAAACAATTAACCTCTTTTGT
GCTGCTACCTGAGAAGGGGTAAATTGTCACCTCAGGAGGTTTTTGCTTTTGACCAACATAGAAAGGAGTGT
GAGTGAAGGCTAGAGGTGTACTAACCTGGTCAGGGCAGGGTGACACATAAAATTAACCATCACAGGGAAG
GGTAGGGCTGGAGAGGCAGACTGTGGCCAGGTTACAATGCGCTGAGGCTAAGGAGACTGTGTTTATCCTG
TAGGCCAGTGGGTCTTACTCTGAAGTCTTTTGGGTGGGACATTCATGGACTTCAAGAGACCTGTGAATGC
CCTAAGATTATAAGTAAATCTGTGAGTCTGTAACCTAAAGCTAAAGCTATTTTTCTGGGGCCACCATCT
AAAGAAGATTCTGAAGCCTTAGGGTAGCCGTGGAGGAGACATGAAGGTCCATTTTGCATGGTAGAACCT
GCCTGGCTCTTGTCTGAGTGTGGGAGGACAGGTTTGCAATGTGGAGGTGTGGCAGGCATGGATTTGGGAG
GATTGGCAGAGGACTCACCATGTCCATACACTCACTGAGATGGCAAATATTTATTAATCATCCAACCTGTG
TATCAGACACTAAGAATAAGCTGGGAGGCCATGGCAAGTGAGGTCACCACAGTCCCTGCCACAGTGGAGG
TTATGGTATACAGGTAAGGCAGGGAAGAGCACTGCAAGGGTTTTGCCATTGCATCAGTCATTTATTTAT
GCACATGTTGATTCAACAATTATTTCTATGCCAAGCTGTCTTCAAGGTGCTGGAGGAAATGAAGCGTACA
TTTCACTGGGGAAGACAGACAATAAGTAAACACATTAATAATCTGGCTTGGCTTGATGTTGGGGAGGGTG
AGTGCCATAGAGAAAACAAACCATTTATGCAGCCAACAAACATATGAAAAAATCTCATCACTGGCC
ATTAGAGAAATGCAAAATCAAACCAACATGATATACCATCTCACGCCAGTTAGAATGGTGATCATTAAAA
AGTCAGGAAACAACAGATGCTGGAGAGGATGTGGAGAAATAGGAACACTTTTACACTGTTGGTGGGAGTG
TAAATTAGTTTACCCATTGTGGAAGACAGTGTGATGATCCCTCAAGGATCTAGAACCAGAAATACCATT
GGCCCAGCAATCCCATTACTGGCTATATACCTAAAGGATTATAAATCATTCTACTAGAAAGACACATGCA
CACGTATGTTTATTGCAGCATTGTTTACAATAGCAAAGACTTGGAAACCAACCCAAATGCCCATCAATGAT
AGACTGGATAAAGAAAATGTGGCACATATACACCATGGAATACTATGCAGACATAAAAAAGGATGAAGTA
ATGTCCTTTGCAGGGACATGGGTGAAGCTGGAAACCATCATTCTCAGCAAACCTAACACAGGAACAGAAAA
CCACACACTGCATGTTCTCACTGGTAAGTGGAAATTGAACAATGAGAACACATGGACACAGGGACGGGAA
CATTACACACCTGGGGTCTATCAGGGGGTGGGGGCTAAGGGAGTGATAGCATTAGGAGAAATACCAAAT
GTAGATGACGGGCTGATGGGTGCAGCAAACCACCATGGCACGTGTATACCTATGTAACAAACTTGCACAT
TCTGCACATGTATCCAGAACTTAAAGTATAATTAAGAAAAAAGAAAAAGAAAAACAAACAGTGTAAAGAG
GATGGAAAGTAATAGGCTCGTTTAGAATGGTGTGAGAAAGCCAGGCAGGGAGAAGGCGCTGAGACAGGGA
GGTCTGGATGTGTTTGTGGAAGAGCTGTGGCAGCACCTGGAACCTGGGGAGCAAGGGAAGGAGTGTGGG
CAGGCAAGGGTGAGGGTGCAGGGGGTCTGCTGGGCCTTCCAGGTCACGGAAGGACTTGAGCTTTACTCT
TGTTGTGGTGAGAAGCTGCTGAGGGCTTGGAGTTAGGGGAGTGAAAAGATCTCTACTATAATAGGGAGAG
TTCGGGATCTGTAACCTTAACCCAGGAGCCAGCAAAGCTCCCTGGAGGAAATGCAGTTTAAGCTGAGAAT
GGGAGGATAAACAGGTGTTTTTTCAGAGAAGAGGAAGGGTGCTCTAGGCACAGAGAACAACATGCTGGAAT
GCTTCTACTAGATCATAGGGGCAAAATGGGAGTGCAGGAGTAGGAGAGGGCTTTCTGGGAAAGATACTTA
TTTTAATTTTGCATGCATTGAGTTTTTGGGTTTTCTTTGGTTTGTTCATGTGGAGGTGCAGAGTGGGTAT
TTAGCACATAGGTCTGAAGTCCAGGGGAGGGGTGTGGGACAGCAGTTGGATGTGGCAGAGATTCCACAAA
GAGCAAATATCATCTGAGAATGGCAGAGGGCTGAGGGCAGAGCCCTGAGGAACACTGGTGTTTAGGAGCC
TGCTGGAGAAAGAAAATACTGCAAAGGGAACGGAAGTGGAGTGGTTGCCAGACATAGAAGCTAGTGTCTA
ACTAGATGTATGAGATGTGGGGAAGGTGTTACGTATCTAAGAATGCAAAGTTGAACCCCTGTGAACCTGT
AATACTTAAGATAAGTTCGTATAAATTTGTCTGGAACCTAGAGCTTGATTTTCCAGGAGAGATGAAATGTGTG
TAGGTGACAGGAAACAATGAATATGTGGGCGAGTGTAGTGTGAGCAATTTCTCAGAGGTGAATTTGACAG
CATTTTGTCTTAGGAAGCTACAAAGAGACCAATGCTAGTTGGTGCAGGAATTCAAGAATTTGGACTTAAG
TCTATATAATGATGATTTTTTTTTTTTAACTTGAGTTTTCCCGGTTTATCACTCCCAGAATATAGGCAGAA
GTTTGAGATTTTTATGTGTATTTTCTGGAAAAGATAGTTTTCACTGTTTTTTTACATTCTCAAACAGGTTTA
TGATCCAAAGAAAAGGCAGTGGTCACAGATACATGAAACGACAAGGTATTCAAAGGAGAACGTTGTACTT
TATGACAGTTCTTTGGGCAGTGGCTTGACAGGATGAGTTTGGGAATGATTGGAGGCAGGAGAGTAATTCT
AGTAATTCAAATGTGGAGTATTGTTGATCTCTCAGACACAAATGGAAAAACAAGGAATTCAAAGAAAGAT
AGGCAGAGTGTTTTGAAGAAATAATTGATGAAATTTGGTAATGAGTTAGATGTAGGAGATATATTTAGCA
AATATTTATTAAGGACTGTATTAATCTGTTATCATGCTGCTAATAAAGACATACCAAGACTGGGTAAATT
ATAAAGAAAAAGAGATTTAATGGACTCACAGTGCCACGTGGTTGGGGAGGCCTCACAATCATGGCATAAA

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GCAAAGGAGGAACAAAGTCACGTCTTACATGGCAATAGAGTGTGTGCAAGGGAAGTCCCATTTATAAAAC
CATCAGATTTTCATGAGAAATATTTACTATCATGAGAACAGCACAGACAAAAGCCTGCCACCATGATTTAA
TTACCTCCCCTGAGTTCCCCCAGGACACATGGAATTATGGAAGCTACAATTCAAGATAAGATTTAGGTG
GGGATACAGCCAAACCATATCAAGGACCTACTGTATATGGTTAAAATTGGGAGCAAATGAGACATGATTC
TTGCCTTCTTGGAGTTTACTGTTTACTAGGGGAACATACACTTGTCAATAATCACCCAAATATAGGATTG
GAAATTGTGGTAAGTGCCATGAAAAACAAGTATAGGGAATTTTGTAGTGTACATAGCTTTGGGGACTTGAT
TTGATGAGGGAGCCTTATGAAGTTATTGCACTAGAACTGAATTAACCACATTTCTAGGAAGTGGACATC
TATTTGTTGGTTCTTTAAATTTAGCTTTACAGAAATATTTCTTTTAAAAACCAAGGCTTCTTAAATTTTT
AAAAGTCTTGGCTAATCAGGGGAATAATGCTTTTGGATAGCTGGTATCGTTATTTATGGTTGGAAAAAC
AACAGTATTTGATTACATTGAGCTTTAACTTTTCTTTGATTAATGAAAATTTTATGGCCCATAGTTT
TTATTATGCTCTGTTTTTACTTGGTCCAAGAGATTCTATTCTCTGGACCCAATATGAATACCTTCAGACA
TCCCTCTTTTTTTTTTTTTTTTTTCCACCCAGGCTGGAGTGCCTGGCACGATCTAGGCTCACTGCAACCTC
TGCCTCTGTGTTCAAGCAATTCTCTGCCTCAGCCTCCCGAGTAGCTGGGATTACAGGCACCTGCCACCA
CACCTGGCTTATTTTTGTATTTTTACCAGAGATGGGGTTTACCATCTCGGCCAGGCTGGTCTTGAACCTC
CTGACCTCATGATTCACCCACCTTGGTCTCCTAAAGTGCTGGGATTACAGGCATGAGCCACCACACCCAG
CCCAGACATCCCTCTTAATTATGTTGAATATGTAATATCGGTGATTTCAATTTGAAAAATTTTAGTAGTCG
AACTAGATCAAGGCAGTTAAGCTTCTTATTTCCATAGATGCAGTGGTATTGTGTCTTTTTTATATGATCT
CTCATGCTTCTGGACATCCTTTTTTCTGCTATTCTTCATTCCTTAGCTACACTTGGTGCTTCGTGGTTGT
AATGCATTGTATAGATGCGTTCATTTCTCATTTCGATCTTCAGCTCTATTTCTTTCCAGAGAATCTCTAC
AGGCATCTGTTAGGTTGAAGGACATCTAATGTCTTAATGTGTAGCTTGGTAAACCAGTCAACTTTCTATC
TGAGTCTTAAGAGAAAAGTGTCGAAGATGAGAAAACGGTACAGTTTGGTGACAACTCAGTGAGAAAAAGAA
GAATTTTACAAGGAAGGAGGTATCTTAGTAATTTTGCTAAAGAAGTAGGTAAACCTTCACCTTATAATAAA
GGGATAGGGCTCGGTTAGGGTTTGTGAAGTCTCCCCCTAGGAAAGCAAACCTGAAAATTTTTGAATCTT
TTAAAGAAGGAAAATAAGAGTCTTTTAAATAAAATTTTAAAATTTATTTTATATATTTTTTATAGACAGG
CTCTCACTCTGTCTCCCAGGCTGGAATGCAGTGGTGCAATCATAGCTCACTGCAGCCTTGAATGCCTGGG
CTCAAGCGGTCTTCTGTCTCCAGCCTCCTGAGTAGCTGGGACTGCAGGCATGAGCCAATGTGCCAGCAA
GAGACATTCATTTTGGTACTGTGATGGTACAGAAAAACAAAGGGCCTTTGAGGCCGAAGGAGCAGAAGAA
GGATGGACTTAGACATGGTATAGGCATTTCTACTAAAGAGCTGTGAAGCTAAAAATGCCAGGTCTATGA
CAGGTGCAGTGGGCCAAGGCCAGGTAGAGAGCAGCAGGAAGAGAGGAGGTGGGGACCTGTACCTAGGCCC
ATCTGCTGGGACTGATCTAGCCATAGGTACTCAGAGAAGCCCAGATTGGTGCCTGACCCACCCTTATGGC
CCAGACATGGACACCTCCCAGTCTGTTCTTCTGCTGCCATGGATGGGCTGTGTTAGTCTGTATTCTG
AGGACACAGCTCTCTGTCTAGAGGAAGTTATGTTATCTTGATCTGATGGATACTCAACGTGAACATTATT
TCAACGTGCCACAGGGCTCTTGAGCCCCAGAGGAAGACCGCTCTTGCCTTTTAGTATTATATTCTTTGTTTT
TTTTTAAATAACATTTTGACAGTCTTTATGGAGTAAGTCTGGGCCAAAATGATAATTGACAATGTTATTT
ACATGGATTTCTAAGTTGGCTAAAAAAGTTCCTTTATGGTTAGTGAATATAGCCCATGTAGTTTCCCCGT
CTTCTTTAGATGCCTTCTATTTCTATGCCCAAAGTCTGCAGTTGATTTTCAGTAAGCTGGGGGTCTCTT
AGAGATAAAATGTAGATGAATGGCATTTTGCTGACAGCATAACATCTTTGCTATTTCTGAGGAAAATGGGC
TCTCGCTATTAAATCTTTGTCAATATTTATAAAAAATAGTATTTACATATTCTATCTATATTGTGGAAC
TATACATTTATTGATTCACTGATTTGATATCAATGTTGTTGAGTCCCTATTCCAAGTGAGGCACTATGCT
CTAAGCACATGGCATTTTAAAGATGAATAAGACACCAAGAACCTTGCAGATAGTAATGGAAATGAGAATT
AATCAATTGAAGATTAATATAGTAAGTAGCAGAAGAGAAAATAAAAAATCTTCTAGAGAGTTCAGAACAG
GGATGTTGATTCAAGTTTATGGGGATTAGGAGTGGCTGGTAAGGGAGGCATTACAGGCAAAAGACATAAAA
ATGCAGTATTTCCCTCGCACTCATTAGGATGGCTACTATATTAGAAAAAGAAGAGAGTAAGTGTGAGAA
GGATATAGAGCAAATAGAAACCTTGTGCCTTGTTCATGAGAAATGTAATGGTGCAGCCACTGTGGAAAA
CACTGGTGATTCTTCAAAAAATCAAAATAGAATTATCATATGATCCAGTAATTCTACTTCTGGGTATATA
TCTAAAAGAATTAAAAATCTGGGTCTTGAAGAAATATTTGTATACTCATAGTTATAGCAACATTATTCAT
AATAGCCAAAAGTAGAAGCAATCCAGATGTCTATAGATGGATGAATGGGTAAACAAAGTCTGTGTAGTA
TATACAGACAATGGCATATTAGTCACATCATGGACCTTCAGGACATTATCCTAAGTGAAATATGCTAGAC
ACAAAAGCAAAAGTAGGGTTTCACTTAATGAGGTATCTAGAATTGCCACATTCACAGAGAACAAAAGTA
GATTGGTGGCTGCTAGGGGATAGGGGAAGGAGAAAATGGGGAATTATTGTTGAATGGGTATGGAGTTTCA
GTTTTGTGAAATGAAAATGTTCTGAAGACTGGTTGCACGATGATGTGAGTATATCTAACATGATTGAATT
GATGAACACTTAAGCGTGGTTACGATGGTAAATTTTGTGTTATATATATCTTACCACAATTTAAAAAATA
TAGCATTTTATTATGTAGGCGTGGGTGGGAAGATACTTGACACATTGGAACCTTCTGGCCATGCGTATACT
GTTCACTCACTTATTCTTTCATTTCATTCAACAAACATGTATTGAATGCTTGCTATGTGCTGGGCACTGAG
CTAGATATAACAATTAATAAGGCTTATAAGACATTGAATCTATCAATTTTCATGCTTGCTAAATATCTACT
CCCACCTCCAAAGGCACTAAGCTTCTACAGTTAGATATTCATAGCTGCTTCCCTACTGACTTGAATCATGC
ATAGGATATTAGTAAACAAGCAATAAAAAGATTTGAGGTTGATGGGGGTGGGTTCAACAGCATGGTGGTG
AAATGGAAAGAGATGGGTAAACAGAATATGAACTAGAATTGAAAACCTGTGAGCCAGTGCTCTCTAATGAAC
ATTAAAAAATAAAGAATTCCCTATTTGAGGCTGCCAACCTCAGAACTAAGTTATTTAGAAATGGACGAAATT
GGCAAAGTCAGACGTACTCAACCAAGGAGCCAATATTTTGTGAATATTATGGCAAATGTAGTTTGAGAA
CCACTACCACAAAATTGTGAACCATAATAATGACTGAGAAGGCAGGGAGAGGTTATACAATTTGGGCTAA
AAGGAAAGACAGGGCTTGTGAAGGGGAGCGCCAGTGAAAGTCAGTGTGGTTCCGGGTATTTGGGTGGGGAC
TGGAAGCAGGAAGCTTGAGCTTCTTTTGCCAAGAGACCCTGCTGGAAGGGCTATCATCAATTGACTTTAG
CTCATCTTAGGATTTTCATTTTTTAAAAAATGTTTCACAGGAACCTTCACTCCATCTATACTTTCAATGTC
TGCTTACCTTTCTTTCTTATACAACCTTTGAACACTCTCTCCATTCAATTAATATATTATGGAGTGCCAA
CTACATGCCAGGTACTGTGCTGGGCTCTTATTCCACCTTTATTTGATTGCACATGCCTGCCAAGTCCTGG
GCCAATATAACATCTACTCCTATGTCTGGTCTGGCGAGAGATGCAAACCTCATCTTCTCTACTTTCTCTTA
CCTCCTTCTTCCAGTCTTCTTCAAGTTGTCTTCATTGAGGCAATTTCTTTTACCTGTGTTTTTAATCCC
AACTCCTCTAGTTTCTTCTTGGCTTTATTCTTTTATCTTCTCTTGTGCTTTCAAACATTCCTTTCT
CCTGGCCCATGCCCTTCAGTCTACACGAGGCCTTCTCAAGTCTTTCATTCTAAAAAATTCATTTTCTTG
GGTCTTATATTCTTCAGCTGCCACCCTATCTGTATCTTTCTCTTCTCCTCAAGTTCTCAAAGGAATG

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CCTTCCCTCATTTTCATCTCCTTACATTCCATCTGCTGAATTTTGGCTTGTGCCTGTACCTGTCTAAGGA
AACTCCTTGCTAAGAGTCTGCTTTGTGAGGTCTGAATTCACCTTAACCAGTCTTTGCTTTGTTGGACTTCT
CTGCCCCATTTGCCATTCTTGATCATCTCTCCATAAACCTTTCTACTTAAAGCATTTTACTTCCTTATT
TTCTTGGTTTTCTAGAACTCTCCTTACTGTTTCATTTTCAGCTTCCTTTCTGTGTTCTCTCTCTCCTA
CATTTTTTTTTTAGCTTTCTACTTTCTTAAAGCATTTTACTTCCTTATTTTCTTGGTTTTCTAGAAATTTT
CTTACTGTTTCATTTTCAGTTTCCTTTCTGTGTTCTCTGATTGTCTCTCTTTCTACATTTTTTTTTTCTG
TGTTCTCTGATTTTCACGCAGTCTGGAGTTGTCATGATCAATCATAGCCTACTGCAGCCTCGACATCCT
AGGCTCAAGTGATTCTCCACCTCAGCCTTACAAGTAGCTAGGACTACAGTCACACATCACCATTCTCAG
CTAATTTTTTTAAGAAGCATTTTTATAGAGATGGAGTCTTGCTATATTGTGCAGGCTGGGCTCAAACCTAC
AGGGCTTAAACAATTCTCCTGCTTTGGCCTCCCAAAGTGCTGGGATTCCAGGCATGAACCACCATGCTCA
GTCTCTACATGTTCTAAAGAGGAGTTTTGAATATTGAAGAACAGTATTTTCAAATTACATTATTCAAGT
TATAAAAAGTATATCCAGGGTTATGTGGCAATGACGTAAAAATTTGAATTGTTATTTTTTTGACACATG
TTCTGTGTTGTCCATCAGTTTCATCTGAGTTCCAAATGTCCAGCTGTTTTATGCTTTGTCTCTGTTTCCC
AGAGACCCTGAGTGTGGTCTAGAGTTGGGATGAGCATTTGGTCTCTAATGGTTCTGAAATAATTGTATATT
CCTGCAAAAACATTAAGTCTATTAGAAACCAGCTAATTTTCATTTTGTCTTTTTATAGGTAACATATTCT
GGTGCAGGTAGTATGTTTTTAAACAAGTTTGCAATAAAACAATTTCCCTCAAGGTTAATATAATAGGCA
ACACCTTTTGTGCAACAGACGGCAAGAGGTAATGAAAGATTAGCTTACATTATGATTCATTATTTCAA
ATGTCAGGATAAAGTGGATCTGCTGCATCTCCAGAGAGTGCATGTTTTGCTTTTCTAATGTTAATGGAT
TTACTGTTTTTTTTCCCCCAGGCCAAATTCAGATAATCGACGCCAGGGTGGCAGAGAAAGATTGGCCAGT
ACCAATGACAAGGGAAGTATGGCTATGGAATCTGCCAAGGAGACTCGCTACTGTGCAGTGTGCAATGACT
ATGCTTCAGGCTACCATTATGGAGTCTGGTCTGTGAGGGCTGCAAGGCCTTCTTCAAGAGAAGTATTCA
AGGTAATAGTGTGTTGAAAACGACTTCTATTTTTGATCCTATGAGCAGATCCTAAGAGCCAAAGCGACTG
AGGAAGGAAGACATAGAATCAGCCATTTGTACAAAACATGAATCCCTAGTAGGTCCACTAGTATCTTTGG
TAGAAACATGGAGAAGAGACAGGATCTCAGGAGAAGGAGTTGACACATGGCAGGGCAGCTGAGGCTGAGT
AATTCGCTTCTCCTTTGGCAAGACTCAATCAGTCTTGAGCAACTCTACAGAAGAATTCCTACTAGCTG
GATCTCTGAGGAAAAAAGAAATGTTGTCTGTGCCCTGACTGGGGAATGCCAGATGGACATTCATGTTTGG
TAGGCAACTTTGCCTATATGATCTGGTATATGCTGTTAATTGTCCATGCATAATTATCTCTCTACTCAGG
CCTTGTCCAGGCAAATATTCTGTTTTGTTCTAGTTTAGCTTGTCTCCCCCTTCTCTCTCTCCATCTCTT
CTTGTCTCAATGGATGACAGGATATTTTGTATGAGCTGACTCAGTGGTTGGTGTCTTGTAATGGGGAGA
TATCATCTTTATCAAACAGTTATTAAGTATCTACCTGTAGCATTTTCATTTTCCGCTGCTCCATTGTT
TTCTTGTCTATAGTTTGCCAAATATAGCTAATATACGGAGAGCTATACTTTATTTCTACTCCAGAAATGT
CTCTATTATTGCATTATAATAGGATACCCTGGGGAAACACTAATCATTTTTACTACCTAAAATACCTATG
CTGAATATCCTTTATCTGATAGGAACAGAGATCTGACAGCAGCTTAGGCTAACCAAATTCATTTTTTATC
TTAAGTGTGGGGCATTTTTCTCTCTTCTTATTCTTTACCTTTTCAGCTTAAGTGAAGGTTAGTATAAACA
CTAAGAATATTTCTGATGGAGTTTTTCATGTGATTCTTCTACAAAACCCAGATTTAAGTAACTTGTGA
AAACCAGAGTCCGCTAAGTTAATAAAACACTGATTGAAGAAGTGATTCTCATGGACTTTCTGTGATAGCTC
TTTCTGCCCTGATATGAGATGAAAGCTGGGGGATGGTATATAGTATTTATTTTTCTTCCGTTGCCAGT
GGGACTTTTTTTTTTTTTTAAAAGCTGTTTCATATCTTAATCGAGTAGCATGTGAGGTCAACATGGTCTA
TTTTAAAAGCATTTTCTTCGACACATTGCTTTTAAACATCTTTAGAACTCTGCTGTGAGACACATGGACT
TTTTTGTGTTGTTATTTTATACAATTAATGATATTCTCAATAGTAATCTTTGTGTGTGTATATATAGAA
ATAAATCTAAATGTAAGTTAATATATTTATTTTCTAAACATATATAAATATATATATATATATATAGAA
GCTATTTAATTTTATTAGATGATGCTATTTTAAATTCAGAAAAAATGACATTTATATTTTGATTTAGGTT
AGTATAAGCCCTTAGAGGTGTTTTGACAACCTCTCTTAATTTGTGGTTTTACTGTTTATTTGATTTTATAT
AATCTAAAATACCATTGTTTTTACCAAGCATTTAATTTGGCAGTGAAAGAGCGTCTGACAGAGGTATGGT
TAGTAGATAGGTCTAACTGCACAACCTGGATGGATTGAGCTGAGACTGTTTCTCATCAGTAAAAATGATT
TGAAGCAGTGGTTGGCAAAGTTTTCTGTAAAGGGCCAGATAATAATTTTTAGGCTTTACAAGGGCCAT
GCAGTCTCTGTTGCAGCTACCGAACTGGATTATAGCCTGTAAAGGTGACCTGTAAACACATGGAAGTGATT
ATGTGCTAATAAAACTTTATTTATCAGAATAGGTAACAGATCAGCCCTGGCCCGTGGCCGATCCCTGATT
TAATGTTTATTTATCTGATCTAAATACCTTTATTTATGGAAGGGAATAGGGGATTTTTAAATCTAAAGTT
TTGATTATTCACATTTTACTGAGAACTTACTCTATACCTGATTAGATGTTCCGAGAGAAATAAAAAAAA
GTGTAAGACATAATCCATAATACCACAAAATTTAAATGTATTTAGGAAATTTATTTGAGGAAGTAAATG
TACTTGTCTCATGATACAATCAGAAAGTAAGTCAGTATTGATAAAGTGTTACCTGTATGAGAAAGATAA
GGAAAACAATAGAGAGATGTAAGAAATGAAATACCAGTTATAAATTTAAATTTATTAAGATTGAAAGTGG
AAATGATCTTCCCTCCGAGAAACAATGGCAATATTCTCACAATTTTTTTACATCATTTTTTGTTCAGCATTT
AAGATAAAATTATATAAATTTCCATAACATTTAGTATTGTCTCTAAGCATTAAGAACAGAAAAACAGAA
GGAAAATATATTTCTAAAAATCAACGAATACAGTGTGAGATGTTTCATTGGTATGGCATTATCTCAAGTT
CAAACATTTTGAAAAATGTCTGCTTACTCTTTGATAGTTAAAAACAAGTATCTCAGCTGGCGTGGTGGCT
CAGGCCGTGAACCCAGCAGTTTGGGAGGCTGAGGCGAGTGGATCACAAGGTCAGGAGATCGAGACCATC
CTGGCCAACATGGTGAACCCCATCTCTACTAAAAATATGAAAAATAGCTGAGCGTGGTGGTGCACACCT
GTAGTCCCAGCTACTTGGGAGGCTGAGGCGAGGATAATTGCTTGAACCTGGGAGGCAGAGGTTGCAGTGAG
CTGAGATCATGCCACTGCCGTCCAGCCTGGTGACAGAGTGAGACTCCATCTCAAAAAACAAACAAACAA
CACCACCACCTAACAACAAACCTCTTATCGCCGTCTTGTATACGCAGACCAGCTAGTAGAATTTTACTG
AAACAGTAGCCTATAAAAAATGCAATTCACCTTGGTTTCAGAAACTTCTTGTGTATCATAGTGTGAAGTCA
CTTATCTTAGGCTTTTTAAATGGGATAAATATTGAGTCCAAAGTTCTGGAAGAAGCCTAGAAAGAAGGCA
GAGTTATTAACCTTTTATAGATATAGGGAGGAACCTTAAATTTATTCAGTTCTTCATTTCATTCACTTATTCAT
TGACTAGCTTTACTAACAAAGCCCTATGCAAGACCCTGGAAATGCAATGATAGAAAAACCTGGTCCCTAC
CCTCACAGAACTTGTGAGGTAAAGGGGGATACAGACTGATAAACCAGCAATTAGATGATGGTGTCAAGAT
AGAGGTGAAGGCAGTGTCTTATAGGATCCAACTCCACTCAGTCTGTTGGTGGTGGTGGTGGTGGTGGTGGT
GAGGTTTCTGATTAAATCTGGAGGCTGAGTCAAGGGAGCATGGTGAAGAAGGAGGGAATGCATGTTTAG
CCATGTGAATGAGTCCATGAGTGAAGACCAGGAGGAAAGGCAGAGCGCGGGGAATTCTATGCGTAATATT
TAACAAAATTAATGTACTGTAAACAAAGACATTTCTGGGCCATGGATTTAATCCTAGACTGTGTAAAAA

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[illegible]

AATCAAAAGTGACTGTTGTTAAGCCCCTGAAGATAATGCAGAAATTCTCTCTCTCCTGGGACCTCGATAT
TAGTTTATTCCATTGTATTGCATATATTTGATTGCCCATGTTCTGTCCCATACTGACTGTAAAGTCCTTA
AAGGTGAGGGCCCAATATTCTCAGAGTCACTCAATAAAATAAAAGAATAAATGGAAATTAGGATCAG
TTTGTGGGCTTTAGCAACACAAAAACATTATACTTTTTCAACATGGGAGAGGTATGATGAAGGAGTTTTT
TTTTTTTTTTGAGACAGAGTCTCACTCTGTCACTGAGGCTGCAGTGCAGTGGCATTGTGTCAGCTCACAA
CAACCTCCGTCTCCTGGGTTCAAGCAATTCTCCTGCCTCAGCCTCCCGAGTAGCTAGGATTACAGGCGTC
CACCACCATGCCTGGCTAGTTTTTATATTTTTAGTAGAGACGGGGTTTACCATTGTTGGCCAGGCTGGTC
TTGAACTCCTGACCTCAGGTGATCTACCCGCCTTGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCG
CCGCACCCGGCTGATGAAAGAGTCTTTAATGCAGATTAATCTGGCAGAGGTATATAGGAGGGACCAGAGA
AGGGAAAGAATCAAAGCGTGAAGACCAATTTGGCTGATATTCAACTAGCTTAGATGTACTAAAAATCTGT
ACTTTTTGGTATTTGTGAAATGGAAAGAAGGGGAATAGAATAAAGGATATTATAATGAAAGGATATACAT
TGCTTGAAGGTAATTAAATATGGGTTATCCAGGAGATAAAAGAGTTAAAGAGGTTACAGACATAGACTGAA
TGAAGTGAAGAAATGAATGACTTGGTCACCAAGAGGAAGGCCAGTCATCAGGGGGTAGGATAAGTTCAATT
CTAGACATGCTGCATTTGAGATGATAGCTGGATGTCCAGATGGAATTATCCAGCAGCCACAGAAACAGAA
TCAGCTCTCTGCGGATATTCCAGGGGTGGGGATTTGAATTAATTTCCCTCAATTAATTTTAAAGAACTTG
ATGAAAAGAATGGTCTGAATACTTCTGAAGGTTGCACATTATTAATAATGGAGAAATAACTCTAAAACC
TTCTCTTGATTTTCATAATAATATAAGCATTCCCTGAATCTTACCAAACCTTGTAAGAAACACTCTTAT
TATAAAAAGTGTATGTGCAAAGCCCTTCTAAACAGGAAATGATAAATTAGTCCTACAGGGCCAAATGCA
GCTCTCTGGGAGCTTACAATTCAGAAAGAACATCCTGTACCAGCACATTAAGCTGTACAAATAGTAAAC
TGCAGAAACAAATATAAGCATTTTTATGATGTCCAAACAAGAACCAAGCAGGTGTTTTTTTTTTTTTTT
TGCAGATTATTTATACTGTGGCAGTTCATAGCCTCCTTTTCGGACCCAGAGCTTGCATAATCCTTCCCTT
ATTTCTACTTACGTGTTTTACTCTCCATCATGTGTTAACATACATACTGTGCAACAGAAATGACTATGGA
GGCTGAGGGCAGCAGAGTTTTAGTGTGTACACATATGAGCTGTGTAATTTTCAAGTGAAAGCCTTTG
CAATGAACTTTTTTAAAGAAAGTCATGGCCGGGTGCGGTGGCTCATGCCTATAATCCAGCACTTTGGGA
GGCTGAGGCAGGCAGATCATGAGGTCAAGAGATTGAGACCATCCTGGCCAACATGATGAAACCCCGTCTC
TACTAAAAATACAAAAATTAGCTAGGCATGGTGGTGTGCACCTGTAGTCCCAGCTACTCAGGAGGTGGAG
GCAGGAGAATGGCTTGAAGTCAAGAGGTGGAGGTTGTAGTGAGCCGAGATTGCACCACTGCCTCCAGCC
TGGCGACAGAGTGAGACTCGTCTCAAAAAAAAAAAAAAAAAAAAAAAAAAAGAGAAAAGAAAGAAAGAA
GGAAAAAGAAAGAAAGAGAAAGAAAGGCGGGCATTAACTTCAGGTATTGGTAAATTTGCTAGGTGTTTGG
CTACTGTTTCTCATCAGAGAAATAGAAAGACACACCATGAAAGTCAAGGCCTGAAAACCTCATTCCATGT
AAGAATGACATCCCCAGTGTTAAGTGCTTGTAGTGTTAATGCGATCCTGTGAAACTTAGATGTGTTTG
TGCACACATGCACGCATATATTTGAAGAACTCAGAAGAGTTAAATCACAGCCTTTCAACCTGTGAAATGA
CAGTAGTTCTTCTTTTTTCCCTCTCCCTTTGGCTAAGTCATCTTTATCTTGGAGATAATTAAGACAAAAAT
GCCTCTGACAAATAAAATCAGTATAGAACCCTATTCTTGGCAGCTTTTGTGGACACAGCTGAAGCTTT
CAGAGGTCTTGAAAAACCATGGCAACAATGCCTTTGAAGGGTAAGCAAAGGTTCCAAATGTTTTTAATC
GCTGGTGTTTTTTCTGCTACCCTTCAAGCATTCTTCTTCAATTTTTTGTTCATCTGATCAAAATTAAATT
TCCAATTTCCCTACTAAGTGGTCTGTCTGGTCAATGACTATTTCCATTAAAGTAGTAGAGTTT
GTGCCCACATATGGTTGTTAAGCTCATCAACAATCCATTAGAAAGCTTTGTTTATCAGTGGCAATAATT
TCCCATAAAAATTATAGATAGGTTTTAATGGGCACATTTTCAAAGGCATCAACTCGTCCTCAAATTAT
GTGCTGACACTGTTCTTACAACCATGGTTCGTGGCCTAATTCACCAAATTTCTCTTTTTTCATAGAGA
ACTGTTGTGCTAGCTTTATATCCTTTTAAAGAGAATGGTCTGTATCTCTGATACTCATTACAGAGAAATG
AGTATTTTAGACGTAGGTTGCTAATTTTAAAGCTATATACTACACTATGTGCACTATATAGGTTATCTT
GTAACCTGCTTGCTGGCTATTTGGCTGAAAAATAACAACATGTAAGGAAAAATCTATTTTATAAGTCTAA
CATTTACTTTGTAAACTTGTTCTGGCTACTCTGTTAATTTTCCACTTACGTGTGGGTTAGAGAGCAGAT
TTGATTTTTTTTTTAAAGCGAAAGATATGGCTTACCTGAGAAAAGAACATAGTGGGGAAAGCACTCCTATTA
TTTTCTCATATTTCCATTTTCTTTAGCGGAAATAAAAAGACATTTTCAAGTTTTTCAAGTTGCTAAGAAAT
GAAGGAACCAAAGACAAAACAACCTAATTATTAAATTACAATTTATTTCTGTAATAAGCACTCGTTCTCT
CTGTTTTCTGGGGAAAGAGTATGTGGACTTTCAATTTTATCCAAATAAGCATCATCTTTCTCTGATTAG
TGTGGCAGTTTCAAAATCATGTATTAGGAAGTACAGAGTGAATGAGTAGAGAATTTCTAAATTAGCACCC
AAGGTTGGGTGGCTAGATTATGTTTATAAATATGAACTTTTGTATTAAAGTGAATGATTTTAAAGAATGC
CTGCATCACTTTAGGGCATTTCATTAAGTGCTGTGCACAATATTTTCTTATACATCATAAAAGATAAA
TTATAGTTCATAAAATAGTATAAATTCCTAATTATTTTGTGCTTTTGACACCTCAGAGTTACTAATAAGG
GATTTTCGTTTTTAAATGATATTTATTTATTTTATTTAGAGACGCAGTCTTTCTCTGTTGCCAGGTTGGAG
TGCAGTGGTGCGATCTTGGCTCATTGCAACCTCTGCCTCCCAGGTTCAAGCGATTCTCCTGCCTCAGCCT
CCAGAGTAGCTGGGACCACAGGCATGGGCCACCACACCCAATAATTTTTGTATTTTTGGTGGAGACGGG
GTTTCACTGTGTTGGGCACACTAGTCTCTAACTCCTGACCTCAAGTGGTCTCCTGCCTTGGCCTCCCAA
AGTGCTGGGATTACAGGCGTGAGCCACTGTGCCTGGCTCGTTTTTAAATAAATTTAAAAGTATATTTTGCC
ACCACTATTAACCAGTTAAGCCATGATGGTATATTATAATCACCATGGAGATGGTTTTTCTCTTTATTTT
ATTTTGTGTTGTTTTCTGATTGCTAGCATGCTGATTACTCTTCTTCTTCTACAAAGTGCCTGCAGGCCAGCC
CCATTTTTTGCTCTCTTCACTTCATTTTTTCATTTCTCCCTGTTTCACTCTTCATAGCACATTTGTACTCTG
TCCACACCTAGAGACCTCCCTGTTGAAGTTCTTCACATTTCTTCCCTAGAGAGGGTTAACTTGTTGAGC
TCAGAGACTTAACTTAAATATAAATGTAACAGATATGTATTGAATGACTATTTTATTTTAGCTCTAGGA
GAAATGCAAAAGATATATCATCCATAGACCCTGAAATCCAGCTAAGGGTTCTGCTTATACACAAGGTGAAA
GGTTGTGATAATGCACATTAAACAATAGAAGAGTTAAATTACAGCACTATAAGTGATGCCTCAAAGCAGCA
TAATGGGAAAAAGGGGTATTTTCAAGAAAAAATGGTATGAGTTTCAAGGCAAGAGAAAAACAGAATGCTCTA
GATTAAACTCAAAGACTTTATGGAGGAGGTGGTGTTCATAGATACCTTTCCACAGAACCATGAAGAGA
GTTCTACTTAATTGTAAGTGGCCTGTGATTTGTCGTTAGTCATTGCATGCTCAATCTGCATGTGTGATA
ACTGTGTATTTTTATGGCAAAATCGCAATTACTTTTGACCAACCTAATAGAATAGTGTGGGTTTAAAAA
AACTATTTGTAATATATTCGAACATATTTCTTATATATATGTTTACCATCATTAGCAGTAAATCTATTT
TGCATCCAGAGATTGAATAATATTTTGTCTTAGGATGTGAGTGATGTACTATTTTAACTTACTTTTGAA
GTTTGACATGGGAGTGATATTAATAAATCTAAAGATGCTCCTAAAGAGGAGCAATAGATAATGTAGGTA

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[illegible]

ATGTCTCTTTCCATGAGAACACTCCCGAAGAATGGGGCCCTGCTTCCAAACAAGCCAAGCATTGTTGTAGT
AAATTTTAAAAAGCTAAATTTTCATAATAACCTTTATAATTGCTACCTGAAAATGGAGTTTGGAAATGGCAC
CAAATTATTAATCAGTAGAAGGAGAATAGATTGCAAAAAGGTAATTATATCAAATTGAATGCTTCTTGAA
ATATATTCTGTTAAATAAAATACAGTTCCTCTTCCCTGTTCTCATTGTAAGCAATGAGGACAATTCAGG
TAGCATGAATCAGGAATCAGAGTACTTTTCTGTTCCGCAGATTGGCTTAATCATTGTTGGGCTCACTTCAA
ACTGTAGATGAGCATTGTCCTTTAACCTGCCGGGCAGCAGAGGTGACCACGTTCACTGCAAAGCCCAGAA
GTGAGTTGTTTCATCTGGGTTAGGGTCTCAGGAAGAGGCATGTTATGACTTCCCCACATTCTGGACAGTT
TAGACTGTAATTCTTGGTTGTTTAAAAAGGTGTTTGAATGTATTTGTTTTCAGAGGCTTGAGTAAATGGCT
CTTATTCTTACACTTTTTTTTTTGCCTGCTTTTTCCAGCATTAGAATAGTTTCAGCCCTGACAATTAGCC
TTATGCTGACTGGAGTGGATTTTTTGCCTAGGACCAAGTGTTTTGCATGATTTACAATGGACTGCATAAA
TGTAGCCTAACAAAGTTATATGATGTGAAGAAAATTACTTAAGGGTAAAAATGGATTGTTTACTGAGAAAA
TGATGTTATTATAAACTGGTTTGAGGGTATTGTGGTTTAGATGCTGTCCTTACAAATTTGAGCTCTGTTG
GTTTGGAGATTTAATATCTAATAATAATAGTTAATGTGAATGAATACTTGCCCTGCTCCAGGCTCTATG
TTACGTGTCCTGAATGCATCATCTCATTAACTCCATAAAATTTGAAGCAGTCAGCATTGTAATTAAT
CTCACTTTTCAGATGAGGAAACCAAGGTATGTAAGAAACAAAACCAGTGTTGAATCTGACTAGTACGACT
GCAAAGCCTGACTCTTAACCATTTGTGTTCTGTTGCCCTTCTCCAAGGGAAAGGAGTGCTTCCAGAAAGGCC
ATTGGAAGTGAGGAGTGTCACCTGATAATAGCTGGCTCCTCATCCACTAGGTTAACAGGCAACAGATGG
GGGCCACAGAGTTGGCTGGAGTTAGTCCTGGTTGCCAAGGGTAAATGGGGCTGTTACCATGCAATGGATA
GAAACTAGGATGCTCCTGTGTGTCTCCTTATATCCTACCAGGTGTAGCATGAAGGTAAAGGACAATTCCG
TCCTCTTATTTGGAGAGGAGACCAAGGCCCTGTAGGACTAAAGGTTTGGGTGAGCTGAAAGCCAAGGGCA
ATTGGCCCAGCTTGGGGAGGAGATTACAAATACATTTGTGACTATCAGACCAGAAAACAGACTGCGGTGT
TCACCTGCGGTTTGGGTACCTGCTGCTTGTCTTTGCTGGGGTATCTGAAGACTGAAAACACAGCTCACA
CTTAGCCTTTTTCTTATTCTGTGTGAAAGAACTGTAGTAGTTTCTCTTGCTTAACAAGGTTCTAGTGGT
GAAGTTTATTGCTTAGTCTGTGAGTTGTAGGGAAATAACCACAGGATGGGATGGTAGCAGAACGAGAAAA
GAAAAGAAGATTGTAGATGCCAGGCTGGTGTGCGCTTGAAATTTTTAAAGTATACAGTTCTTCTTTATGG
ATTATTAACAAAAAACAGCAAAATGAATACACAAGATTAAATGTTAAGCAGTACAACATTGTACATGATGA
AAGGTTAAAGTCTTTCTCTGGTCTCATTCAAAAATCTACAGTCTCTTGTAGTATAGTTTGAAGTCAGGTA
GCGTGGTGCCTCCAGCTTTGTTCTTTTGGCTTAGGATTGACTTGGCAATGCGGGCTCTTTTTTGGTTCCA
TATGAACTTTAAATTTCTGTGATGAAAGTCATTGGTAGCTTGATGGGGATGGCATTGAATCTATAAATTA
CCTTGGGCAGTATGGCCATTTTCACGATATTGATTCTTCTATCCATGAGCGTGGAATGTTCTTCCATTT
GTCTGTGTCCTCTTTTATTTTATTGAGCAGTGGTTTTGTGGTTCTCCTTGAAGAGGTCCTTCACATCCCT
TGTAAGGTGGATTCCTAGGTATTTTATTCTCATTGAAGCAATTGTGAATGGGACTTCACTCATGATTGG
CTCTCTGTTTGTCTGTTATTGGTGTATAGAATGCTTATGATTTTTGCACATTGATTTTGTATCCTGAGAC
TTTGCTGAAGTTGCTTATCAGCTTAAGGAGATTTTGGGCTGAGACGATGGAGTTTTCTAGATATACAATC
ATGTCATCTGCAAAACAGGGACAATTTGACTTCTCTTTTGCTAATTGAATACTCTTTATTTCTTTCTCCT
GCCTAATTGCCCTGTCCAGAACTTCCAACACTATGTTGAATAGGATGGTACTGGTACCAAAACAGAGATA
TAGACCAATGGAACAGAACAGAGCCCTCAGAAATAATACCACACATCTACAACCATCTGATCTTTGACAA
ACGTGACAAAAACAAGAAATGGGGAAAGGATTCCCTATTTAATAAATAGTGCTGGGAAAACTGGCTAGCC
ATATGTAGAAAGCTGAAACTGGATCACTTCTTACACCTTATACAAAAATTAATTCAAGATGGATTAAAG
ACTTAAATGTTAGAACTAAAACCATAAAAACCCTAGAAGAAAACCTAGGCAATACCATTGAGGACATAGG
CATGGGCAAGGACTTCATGTCTAAAACACCAAAAGCAATGGCAACAAAAGCCAAAATTGACAAATGGGAT
CTAATTAACTAAAGAGCTTCTGTTCTTTGCTGGGGTATCTGAAGACTGAAAACACAGCAAAAGAACTA
CCATCAGACTGAACAGGCAACCTACAGAATGGGAGAAAATTTTGCAATCTACTCATCTGACAAAGGGCT
AATATCCAGAATCTACAAAGAACTCAAACAAATTTACAAGAAAAAGGAACCCCATCAACAAGTGGGTGA
AGGATATGAACAGACACTTCTCAAAGAAAGACATTTATGCAGCCAACAGACACATGAAAAAATGCTCATC
ATCATTGGCCATCAGAGAAATGCAAATCAAACACCAATGAGATACCATCTCACACCAGTTAGAATGGTG
ATCATTAGAAAGTCAGGAAACGACAGGTGCTGGAGAGGATGTGGAGAAATAGGAACACTTTTACACTGTT
GGTGGGACTGTAACTGGTTCAACCATTGTGGAAGACAGTGTGGCGATTCCCTCAGGGATCTACAACCTAGA
AATACCATTTGACCCAGCCATCCCATTACTGGGTATATACCCAAAGGATTATAAATCATGCTGCTATAAA
GACACATGCACACGTATGTTTATTGCGGCACTATTACAAATAGCAAAGACTTGGAACCAACCTAAATATC
CAACAACAATAGGCTAGATTAAGAAAATGTGGCACATATACCCATGGAATACTATGCAGCCATAAAAAA
GGATGAGTTTATATACTTTGTAGGGACATGGATGAAGCTGGAAACCATCACTTCTCAGCAAACTATTGCAA
GGACAAAAAACCAACACTGCATGTTCTCACTCATAGGTGGGAATTGAACAATAAGAACACTTGGACACA
GGGTGGGGAACATTACACACTGGGGCCTGTTGTGGGGTGGGGGGAGGGGGGAGGGATAGCATTAGGAGAT
ATAACTAATGTAAATGATGAGTTAATGGGTGCAGCACACCAACATGGCACATGTATACATATGTAACAAA
CCTGCACATTGTGCACATGTACCCTAGAACTTAAAGTATAATAAAAAATATTTAAAAAATCTACAGTCCC
TTTCTCAATAGGTAAACACTATTAACAATTTCTTCTGAAAATTACATATGTACACACACACACACCCAC
ACATAGATATTTTGTAAACATACATTACCTTATGCTCTACACATTATTCTGTGCCTAGCTTTTCTCATCG
AATAATGTGTATTGGAGATCTTTCCATATAAGTACATATTGGTCTCACTCATTCAATTTTAAATGGCTGTA
TATTAGTCCATAGTATGGAGTAATAATACCTTTTTATTGGCACAAAGTTTTGCAGTTGACAAAGGGTTTGC
ATATATTGTTTCATTGGGTTGTATAGCAGTCATCAACGGACATATCAAGAATCCCAGAAGGGTAACCTGG
GCTTCACCCAGGATCGCATGGAGCTTGGGACTCAAACAGCTAACATTCCCTAAACAGGCCCATATTCCTG
CAATTTAGTGCAGCTGCTACAACATTTAGGTAACTCTTTGAAAGCAGTAAAAAGATCACCAATCTGGGA
CATCAAGAAGCCAGACGACAAGGAGACATAGACCTCAGGTGAGTGAGAAAAGAGAATAATTGAAGTTTAG
AACTGAATGGGCACTAACGAACAACAGATACATCTCTTCCCTTTCACCGATGAGGACCTGGGTGTGGCCT
GTGGATGTTAAGTAGCATGTTTAGGCCACACAGCTGGATTGTTTTCTTTCCTGAGGCTAGCTCTGGAGAG
GGGAGGAAACGGAGATGCTAGATTTTTCCGGGCTCTCTTTCTCATCAGCTAGAATGGGATGTGGATGGA
ATGCAGCTTGAGAAGCCAAACACCCTTGAGAAATGAGAATCTGCTTTCTGATGTGGGGCGCATCCTATC
TGAGATAACTCTCCTGCCAGCGCAGTATGACCATTGCGACTTGAGCTGTGTGGGTGCCAGGTGGTGTAG
ACCTTAAACCACTCCTGCTTTTGTTTACTGAATGTCTAATATTACACAGTTCTTTGTCTGAGTGCAGG
GCCAAAGCAGCAAATAACGAAGAAGCTGTGCCCAACCATAAGAACTATGAAATGCTCCAGATCATCTACG

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CTAGTTTGAGTTAAATTTACCATGCAAATAAATATAGAACATTTCTTCTTATGCATAGATTGTATTTGTT
CTATTAAACAACCATCCTGTAAAGGTTTTATTTCATTCATTTATTTTATTTGTTAGGAGAAATTGTTATT
TAAGCTAAGAAAGTAGACTAGTAGTTATTTCTTTTTTTTTGCTTATTATACTTTACGTTTGGGGATACAT
GTGCAGGTTAGTTACGTAGGTATACACGTGCCATGGTGGTTTTGCTGCACCCATCAACCTGTCATCTAAAT
TAGGTATTTCTTCTAATGCTATCCCTTCCCTAGCCCCCACCCTGACAGGCCCCAGTGTGTGATGTTT
CCCTCCCTGTGTCCATGTATTCTCATTGTTTCAGCTCCCACTTATGAGCGAGAACATGCAGTGTGTTGTTT
TCTGTTCCCTGTGTTAGTTTGTGAGAAATGATGGTTTCCAGCTTCATCCATGTCCCTATAAAGGACATGAT
TGCATCCTTTTTTATGGCTGCATAGTATTCCATGGTGTATATGTGCCACATTTCTTTATCCAGTCTATC
ATTGATGGGCATTTGGGTTGGTTTTCAAGTCTTTGCTATTGTGAATAGTGTGCAGTAAACATACGTGTGC
GTGTGTTTTTAGAATAGAATGATTTATAATCCTTTGGGTATATACCCAGTAATGGGATGGCTGGGTCAAA
TACTAGAAGGCTACAGTAACCAAAACAGCATGGTACTGGTACCAAAACAGATATCTAGACCACTGGAACA
GATCAGAGGCCCTCAGAAATAATGCTACACATGTACAACCCTCTGATCTTTGATAAACCTGACAAAACAAG
CAATGGGGAAAGGATTCCCTATTTAATAAATGGTGTGGGAAAACCTGACTAGCCATATGCAGAAAACCTGA
AACTGGACCCCTTCTTACACCTTATAAGAAAATTAACCTCAAGATGGATTAAAGACTTAAATGTAAGACC
TAAAACCATAAAAAACCCTAGAAGAAAACCTAGGCAATACAATTCAGGACATAGGCATGGGCAAAGAGTTC
ATGACTAAAATACCAAAAGCAATGGCAACAAAAGCTATAATTGACAAATGGGATCTAATTAAACTAAAGA
ACAACCTGCACAGCAAAAGAACTATCATCAGAGTGAACAGGCAACCTACAGAATGGGAGAAAATTTTTGC
AATCTATCCATCTAACAAGGGCTAATATCCAGAATGTAGAAGGAACTTCAACAAATTTACACACACACA
CACACACACACACACAAACAACCCCATCAAAAAGTGGGTGAAGGATATGAACAGACAGTTCTCAAAAG
AAGACATTTACACTGCCAACAACATAAATATGCTGCCAACAAGCATATGAAAAAAGCTCATCATCACTG
GTCAAGAGAAATGCAAAATCAAAACCACAATGACATACTATCTCACACCAGTTAGAATGGCAATCATTAAG
AAGTCAGGAAACAACAGATGCTAGAGAGGATGTGGGGAAATAGGAACGTTTTTACACTGTTGGTGGGAGT
GTAAATTAGTTCAACCATTGTGGAAGACAGTGTGGCGATTCTCAAGGACCTACAATTAGTAGTTATTTT
TAGGTCTGACGGGCTGTCTTTTAGTTTGTCTTATTCTGAGGTGGACTTAAACCAATTTTAAAAACAG
GGATGACTGAATTCGTGTGTTAATCTTGTACTACAGGAACCCCTTTGACATTGATTCAGAAGCACCCAAGT
GTTTGTTCATTAATCCTTTTTTATTTTTGCATATTATTTATTTTTCAACTTTTTATTTTAAAAATCAGGGG
TACATATGCAGGTTTGTACAAAGGTATATTGAGTGATGCTGAGGTCTGGCATATGGATGAATCTGTCAC
TCAGGTAATGAGCATAGTACCCAATGATAGTTTTTTGTACCCAATGATAGTTTTTTGTTTTCTTTGTTTT
TTTTTGTGTTTTGTTTTGTTTTGAGATGGAGTCTCGCTCTGTACCCAGGCTAGAGTGCAATGGCTTGATCT
CGGCTCAATGCAACCTCCGCCTCCAGATTCCAGCAATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGAC
TACAGGCGTACACCACCATGCCCCGCTAATTTTTGTATTTTTTAGTAGAGATGGGTTTTTACCATATTGGC
CAGGCTGGTTTTGAACTCCTGACCTCAGGTGATCTGCCACCTCGGCCTCCCAAGTGGTGGGATTACAG
GCGTCAGCCACTGTGCCTGGCCCCAATAGATAGTTTTTTCAGTCCTTGCCCTGTTCTCCTTCCCACTTC
TAGTTATCACCAGTGCTATTGTTTTCTGTCTTTATGTTTCATGTGTACCAATATTTAGCTCCCACTTATA
AGTGAGAACACATGGTATTTGGTTTTCTGTTTTCTATGTTAGTTTGTCTTAGATAGACCTCCAGCTGCATCC
ACGTTGCTGCAATGACACGATTTTCTTTTATGGCTGTGTAGTATTCCGTGGTGTAGATATACCA
TATATTCTTTATCTAGGATAACTGATGGGCAATTGGGTTGATTCCATGTCTTTGCTATTTTGAGTAGTGT
TCTGATGACCATATGGGTGCATGTGTCTTTTCAATAGAACAATTTATTTTCACTCTTATCAGGATAC
CTGGGAGGAACTTCTCCTACGAAGTTAATTTGGGGGACTCCTGAAGATGAGTGAAACCCCTTATTAAGC
ACTTAGAGGGTCGAAAGTGTAAGGGAACGTTTCAGGTGTGACAGCTTGAGAGACATGCATATTCACCC
CCACACCAGAGCTTAGTGAAACCGTCTTTTCTATTTTCTCCCAAAGCACCAAAATGGCCCAGAAATTGGAA
GATGGAAAATGGACTTATTTATGAGTCTGGGAAGGCAGGGCAGTAAGCACAGTCTGTTTCAGGGTTCTGA
GTTTTACCCTCTTGCTCTGATTGCGAGATCATTTTCTCTTCTGCTTCTTTCAGCTTAGGACAAGAACA
GTTTGGAAATTGTTTCTACTACTTTGGACACCATAGTTTAGATTTCAAATGAGTACAAGTGGGAGGAAAG
CTTGGATAAATCTCTGGAAATAATCGAACAGAGTGAAGGAGAGGGGTCTACAGGTGAGCTGAATGCTGCA
TGGCATTGAAGTAATCACACCAGTCGTCACAATCTCTCCTCTTTGATGGTTATCTGTTGTCCCAGAAGG
ACAATTTTCAGAAAGTCCTTTTCTGGACTGTAGAATAGCACTTGCTTATTTGATGAGCCCTGAGAAGCAT
TACTGAAAGCGGTTTCATTGTCCTGAGGTATTACAATGAGATGGTGGTCACTGATTTTCAATTATGTTTTCC
TTTTATTGCAGCTGTTGGTTTGATCCTTTGCCAGGTGCTTAAACAATTGTGGTTTTGCAGATGGTAAGTT
AGAGGTTGGACAAAAAAGGGATCATGTCACTGCCCTGGCCAAAATTTCAACAGACTGGGGTCTAGTGAG
GGCAAATAGATAGAGGCTTTCCTCTTCACTTTGTGTTATTTAGAAAAAGAACTTTCCAGGACAAATTTT
TTTCTAGAAATTCCTTTTTTAAAAATTTTTTTTCTTTGAAAATTTACTTAGATGCAAAATAATATATTTTT
CTTCCTTTTTAAATAATAAAAGTAAGATGTCTCTTGGAGGTGGTGGTTGTCACTGACAAGATTAAGTAGAA
CTGACTAGCTGTAAAAATATAATTTGGGATGCATTATTAAGGCATGCCATTTTTATTTGCATGCCATTGT
GTACAGATGTGGTTGTGAAATAGTTCAAATCATGGCACATTGAATGTCTCACTGGATTTTTAGGAATGT
GTTCACTGAGACAGCCAAATCCTATTTTCATTTTCTTTGGCTCATTGCATTGGCTGTAAATTGGAGATATT
CACTTTAATATGTGAGTCAAAATTTATTTCCAAACATAATACTGCAGTTGTTCTGTGCACAGAATATAAAT
TTCTTATTTATTTCTTAAATACGTTGCTTTTCTACTTTTTCTTTTTTCTTTATTTTATTCTGGAGTATGT
GGAAAGGTTTTCCAGAAAGATTTGCATATGCCATAATCTACTGATGAATACTTTTTTTGGGTTACTCTTT
CATATTTTGGGAGATATAACTATGGAAGTGTTAGGAATCATGGGTTCTGGAAATAGTTTTATTACTGCTT
CTGAAATGCCCTCCCAATGATACCATATAGTAATTCATCAGGGAATAATATTTTTATTATAGTTTAAAA
TATAACTTAATATTTAGGTGCTCTTGTTTCAGTCATCGTCAAGTTCTTTTTATTTTACCAACCCCTACCATG
GCACTCCTGAAAGACTTGTGAATGCGACAGACCTGGATTTAATCATGGCTTTGCCATCTGCTAGCCAAGA
GAACCTGAACAAGTGAGTCAACTTCTTGGAGTCTCATTTTCTGCTTCTGTAACATGGGAACTAGGGTAAT
CTAACTCATTGCTTGTGATGATTAGATGAGGCAAAATGCTGAGTTCACCTAGCCCAGCACCTGGTCCATG
GGAAGCATGTGGGTTCTGCTGCTACCCAGTCCTTTGGCCAGTGCATGGTGCACAGAAGGGAATCTGAACA
GGCCAACCTTTATTCCTATTCTTTGACCCACCCCATGTAGATGCTTCTTACATCTTCAGCTTCTTCTTCTT
TTCTTTTTTTTTTAAAGGCAGGGTCTCACTCTGTCCCCCAGGCTGAAGTGCAGTGGCACAACCACAGCTC
AGGGCAACCTCGACCTCCTAGGATCAAGTGATCCTCCACCTCAGCCTCCTGAGTAACTGGGATGACAGG
ACCACACTACCACACTTGGCTAATTTAAAAACTTTTGTAGAGCTGGGGTCTTGCTATGTTGCCAGGCTG
GTCTCAAACCTCCTGGATTCAAGTGATGCCCTCACCTCAGCCTCCCAAGTGCCTGGAAAACAGGCCTCCA

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CACCCAGCCTTCAACTTCATTTTAAAAAATTGTGGTAACTATAACAATTCATCCATGAAAGCAGAAACCA
CTTGTACCCCAAAAGCTATTGAAATTTAAAAATATATATATTTAAAAATAAAATTTGTGATAAGAT
ATACATAATATGAAATTTACTACTTTAATCATTTTTTAAGTGTACGGTTCAGTGGCATTGAGTACATTAC
ATTTTTGTGCAACCGGAACCTTTTCATCCTCCCAAAGTGAAGCTCTGTACTTATTTTTTATTTTATTTAT
TTTTTGAGATGGAGTTTCACTCTAGTCGCCCAGGCTGGAGTGCAGTGGTCAATCTCGGCTCACTGCAAC
CTCTGCTTCCTGGGTTCAGAGATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGATTACAGGTGCCCACC
ACCACACCCAGCTAAGTTTTTGTATTTTTAGTAGAGACGGGGTTTTGCTATGTTGGGCAGGCTGGTCTCT
AACTCCTGATCTCAGGTGATCTGCCCCGCTCAGCCTCCCAAATGCTGGGATTACAGGCATGAGCCACTG
TGCCCCGGCCAGCTCTGTGCTCATTAAACAATGACTCCAAGTTCCCCTTCCCCACATCTCCTGCTGACCTC
TCTTCTACTTTCTGTCTCTGTGAGTTTAACTATTCTAGGTACGTGATGTAAGTGCATCTATGTGATATTT
GTCCTTTTGTGCTGGCTTATTTCACTTAGCATAATGTCTTCATGATTCAATCATGTTGTAGCATGTGTC
AGAGTTTCCTTCCTTTTTAAGGCTGAATAATACTCCACTGTATGGATAGACCACACTTTATTTATCCATT
TGTCTGTTGATGGACATTTGGATGATTTCCATCTTGTGGGTATACTGAGTAATTTTGCTATGAACATGGG
TATAAAAATATCTATTTGAGTTTCTGCTTTCAATTATTTTGGGTCTACACCTCAAAGCGGAATTGTTGGA
AGTGGAATTGCTTCCACTTGTGGAAGTGAACATGGTCTCCCACTTCATTTTGACACAACCTTCCAAGC
TTCAGAACTGTATTTACAACAGCGTGTGGGAGGTCGCTTTGAGTTTATGACGGAAATCTCATATCAACA
GGTTTTAAATTGTTCCATACGACTTCTTGCCACCCCTGTCCCAATTCAGATCTTTTTTTTTGATTAATGGT
ATGAACAATTTTCAAAATATCCTGGCACAATCTATTAGAATATTTGACTTTCTCCTCCTCCTCCTTTAG
CCCTAACTATTTGGCAAAGCTGTTGAAAACCTTCTTCACATCTTCTCTCTGCCTCATCTACTTTGCTACTC
AAAGATGATTAGTAGATGTTTTGGTATGATTTTTTTTCTTGGCATAACTGTGAATACTTTTAATCCTTC
ATGTTTTATGACAATCATACTATCCCACTTTTGTGTAAAAACATTTTGAATTCTTCTTTCTATAACAAAT
TCTTTGCCAGTCTTCCCTTTTCTTTTGTCTTTAGTGAGTTCCAATGATATCATTGTTTGAACCTGTTTTT
TAATTCTATGCTGCTATTTCCATACTCCCTCTTTGCTTTGGTTACAGTAGATAATGTGGGTGGTCTTACC
AAGACAAAGCATCACTCAGGAGTCAAGGGCTGGGGTAGATACAGACACTAGGTACTGCAGAAAGTCAATA
TCTTTCTCAGAGTGAAGGCAGGACAAGACTTCTGTTCCCTTGTACCGTTGTGGCTGGGGAGTTGGACTG
TGCATTTTCATCCTTGTGATATAAGTCAAAGTATTGCCCAAATAACTTAATTTTGGTGTGGTCTTAGTAAG
TATTTGTCTCGTAGATATGTTAAATAGAAGACAGTAACATTGGGTTGGCTGTGTTAATTCCTCACTTTTT
CTTTCCTATACATGAGCTTCCCTAAGAAGCGGAACACTTGGTGGTCAGACAGTTGCAGAGATTCCTTGCAT
GATTGCAATCTGGAAAGTAGATACCATCTTGAATGAAGAGCTTGCCCTTTGGAGAAGCTGGGCTTTCCA
TATATGGAGGTTGTTAGAATGCATAAGAGTTTCACTTCTGGAATGAAAGGAGACCTTGGTTCAAACCCA
TCTGCCACTTGCTTGCTGTGTGGCTTAAATCAGGCTTTTAACTTCAATTATAATTTGCATCTGTATAA
TAGGATTAATATAATTCCTTCCTCATAAAGTTCCCTAGGGGGTTAAATGAAACAATCAATGTATAACACAC
TTCCTGGCATGTGATGTTTCACTAGTACCTAGAAGACTCGGTTTCTTGGTAGAGAGAATATTTGGCTAGACAA
GCTTATGGAATTACCCCGAGATAGGAAGTGAAGCAAGTGTGAAATGAACAAGCCAGAGCAGGAACGGCT
CTTGGAAAGCGTCTACTCAGGCTGGGCTGGCTGGTTTATATAACAGTGTCTTGAATTCACGTGCAG
ATTCTTACTATTTTCCCAAATGTTACAGCTCAAACTATGTTGTCTGTACCTTAACACCTAAAGGATAAT
ATAGTCTTTCACTGATAAACTAAAATGTATAGGTTTCTTGGCCAAATATGTATAGAACTTGTGA
TTTCACATCAGATTTAAAGCTGTATTTAACTCTATGAAACATACTGATGCTTAGAAGTAGAAAGGAA
GTCAGATTTTGACATCTTACTTGTCACTTAAATTATTTATAGTTCTTGGATGCTTCAAATGTGATAAA
CCATAGTTAATTTTATGTAATATTCGATGAGTGCCTTTAATAAGGAGACTGTAAAGGTAGCCAAGCTTT
ATATATGTTAGCTACATTTATGGGTCAATCGGGTATAAAAAATAGGACTTCGAAAAATAAAATATTTT
GTCGGACTCCTCCAATGAGGCTTTTTCGAGGATTAGCTAAAATTGGCTCTTATTTGATGTGTGAGTGT
TAAACATTGGAGAATTCATTTTTCTTTTAGAATTCATTTTTATTTCTGAGCCTTAAAAATATGAACAGTTA
GCTAAATGTTTGTATATGTTGATAAGGAATGCTAAGTGTTTATTCCTTAATGGGACGACACCTTTTCCCG
GTTTACATAACTTGCCTTTTAACTAACCTTATGAAAGTCTCCTTGACTTTAATTTTTTTTTCAGAGTACT
GTATATCTCTTTAGGGAATGCATTTATTTAAAAAATTATAAAGCAAGAATAGATGTGATATATTTTGAAG
TTTTCTAGTCACAAATTAATCCCTAGATGTGTTGTAGTTTGTGGAGCACTTTGAAATGTGCCAATTCAA
GATGGAATAGCAGGAAAGAACCATTCAGTACGATTTCTGACTCCATAAAGTTAGGAAGTTATGATAAA
GGAAAAATAACTACACCACATACTTATGGCACAGAATTGCATTATTGGGACAAAATTGATCTTCAAATTTG
TAGGCTATGATGGAAGCAAATATTTGTAGTATCTTAATATTTCACTGTTAAGCCAGGAGACGAGTACTCT
GAACCTCAGCTTCTCATAAAATCAGTCAGTTACATGACAGTTTATGTAGTTTATATGTAAGAAACCTTT
GATCAAGATATGCCTTTTCTTCAAGCTTGTAAACTTTCATTTATAAGGATTTTTATTTCTAGGAAAATA
ATACCATAGACCTATTTTATTTAAAGCTAAAGTGTTTCTGGTGATGGTGGTGAATGGGGAGATGATTCA
AGGAACTGCTAATCTTGTAGAGTTTAGTAAATCTTGGAAATAGAAATTTTAAAAAGTTAAACACACTA
TGAAACAAATCATTATTAGTAAATGAACCATATTAATAATGTCTCCATAACCAACGTATTATAGCAGGG
GAAATGGCATTTTAATTCAGAAAAACATTTCTATATAAAAAACAGCTTTGGAATAATTTGAATATGTTGA
TTTTTCTTTGGGGCAATCATGAAATACAGTCATATTAGGAAAGAGGCAAGGCCTCAAACCGGAAAGAGTA
GTGAGGATAATTCATGAGCAATGCGTGGCTTCATGGATCCCTTCTGGCCCTCTTCATCTATGAACATCT
GCTTTATGTTTATGTTGCTGGCCTCAGGAGTGTGAAGAGCAGACTGCCCTGCTTAGAACCAAGCCTTGT
TCTTGTGGATTTGAGTTTGGGGTCTGAGGTAGAATGGCCATCATATTGTTTCAAGGTCCTCACCTTCCC
ACTCATTACTTCTTTTATAGAACCCAGTCATCCCCCTCAGGAGGCTGCGCTCCACAAATGAAGTTGGG
GGTGAGGGGAGCTTTAGCATCTCAGTATTGTTTCAAGATATTGGATACTTGTGAGCTCCACTATGTGTGTG
AGAATGCGCTGGGCTCAGGATCAATAGCCATAAATGAGACAGATATGGCCCATCCCTTGCCATGCCTAAA
CTGATCTGGGCATTGAGACAAGCAGTTAAAACCAACATAGTAAGTCTTATGATGAGACACAACTAAGC
ATGGCTGGAAGGGCAGATAAGATTTACAGAGGAAGTACATCTTGACTGGCACACTTAGAAGATGAGTA
GGAGTCAGTTGGGCCAAGAGGAGAAAAAGTGTGTTTCCATGAAGAAGAAGAGCATGTGCCAAGTCTGGG
GGTGAGAAGCATGGCATGTGTCAACAGAAAGACATGATCAGAGCTTGGATGGGAGTTAGAGCGGGGAGAG
AAGGCAAGGAAAAACATAAGAGCTTTGCAAACGTGTAAGGCATTGCATTTAGATGTGATTTTATAGAGCTT
GGAGGAGCCTCAGGACATTGAGGCAGGATAGTGGCCTGATGCGTATGATTTTATAGGAAAAATCACTGTGG
CCACCTGTGGGGAAGGATTGGCGGGGAAGGCTGGAGGCAAGGGTCTGCGGTGGGCTGTGGTAATGA
TCTGGGCTGGAGAAGGTATGGTGGTGGCCAGCGCAAAATTGTTTCTGCTTTGAAAAATAATTAGAAAATA

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TTTGTGTTTGATCTGTGTGCCTGTGGTGGGAGGTGGGGAGGGAGGGTCAAGTGAGGAAGGAGATTGAATCT
AGAATAATGCCCATGTTTCAGGCTTCACGTGCAGACATTTCTTGGTTCAGCTGGGAAGTGAATAGGAACA
GACTGGCGAGGAAAGAAGACAGTCGTGATTCGTCTGGGGCACATCCATCTTGACGAGTGTGAGAGAGT
CAAGTCTTGATGGACAGGGGAGGTGGACATTCAGGAAACTCAGGAAAGAGATTGATCTGAAGTGACCA
CCAGAAAATACTGACGAAAAGAGGTGACAAAAGGAGAGACCTGCAATATTATATTGGCTTTCTCTCAGG
CAACTGCTTGGCCTGTCTTTATATTCTTTTGAATCTCTGCATATGTACGGGCCATTATTTATTTTCACA
ACTAACAAATGCAGACTTTCTGTGTAATGACAACAAAGCCAAACCAGCTGCTACCAAAGGAGGGAAAATC
AGAAGAGAAGGAAAAAGAACAAGGGAAGCTTGGGAAAAGCTGAATGTGGGTCCTTCTGTTGCTGCAGGG
GCTGGGGTGGGCCCCGCTGATTCCCTACTGAGAGGCGTTTTCTCTCCCCGCTTCTGTCTTTCTGGTTCCAT
CTCATTACCTCCTGTCCCCCTCCACTTCCTGCCAGTCAAACCTTAGATTCTCCAGAGGCTTTTTATTTT
TATCTTTTGATGGGCAAGAAAATAGTGGGATTATTTTTCCAAACCTTCACCTGAACATCACATCGTGGC
TTTGGCCCTATGGCTTGGTTCATCCGGGCTGCACAGAAGGACTTTTCGGGCCAGTCTGGTCACATACA
TCGAGTCCTGTCTTTTCAGTTAAAAAAAACACACACACACACTGCTATGTTTCACTAAGACAACCTGG
TGTGAGTTGTTTTTTAGAAAATCAACTCTACTTCAGTAAGATTTTCTCAAGCATTATCTTGAGAAGACCA
GATAATAAAATTTAAAAAGAATTTCTTCTTTTTTTTTTATTATACTTTAAGTTTtagggTACATGTGCAC
ATTGTGCAGGTTAGTTACATATGTATACATGTGCCATGCTGGTGAAGTGCACCCACTAACTCGTCATCTA
GCATTAGGTATATCTCCCGATGCTATCTTAATGCAACTTAAATCAATTGCTTTAATAACACATATTGACC
AAGTTACACTCATTAAGGAAAAAAAACACTTTTGTGTTTTTTCTTCTTGACGTGAGCTGAAGACTTAG
AAATAGTTGTTAATAGTGTGGTTAATAAGAATTTGTTTTAATTGCATATATCAAATATGATTTATTA
AACTTTTTCTTTTTGTGCTAGTTTATCAATTCTAGCTTTGTACAAAAGGTTTGCCGTATGAACATGATTCTG
TTGTACATCTATTTCCATTTTTGTTAAGAGACGAATTCATTGTAAAAATCTAGTACCTTTTATTCATTA
AACATGTTAGTTTCAAGAAATTTCACTTGGTCTACAAAGATACATATCTACAGTGGATGGCCAGTGCAAAC
ATGAGACTCAGCCAACTGGTCTCTGACCCAATTCAGTTCTCCTGTCTTCTTGGCTTACAAAGTAACTG
GCTCTGGGGAGAAAAGTGAAGTCAAAGTAATATTTGGTTTTGAATGGTTATTGACTATTTCTTCTGAACTT
AATGTATACTAATTAATTTTTTATTTTATTCTTTTTTTTTTTAGAGATAGGGTCTCGCTCTGTTGTCCATG
CTGGAGTGCAGTGGTGTCTATCACAGCTCACTGCAGCCTTGACCTCCTGGGCTCAAGCGATTCTCCTGTCT
CAGCCTCCCCGAGTAGCTAGGATTACAGGCATGTGCCATCATGCCAGGCTAATATTTAATTTTTTTTTTTT
GTAGAGACAAGATATTGTTATGTTGCCAGGCTGGTCTAAAACCTCCTGGTCTCAAACCTATCCTCCCACCT
CAGCTTCCTGAAGTACTGGAATTATAGGCATGAGCTGCCACACCTGGCCATATACTCATTTTTTGTAAA
AGCTGAAATATATCAGCATATACTGCATAAATACCACAGGAGACTAAACACTGAAAGTTTCTTTAGGGTA
TCAGAAGAATACACTTTTTGCTTGCAGTTAGCATCTGCACAGATAAGTTTTGTTTCTGGTTCTATTACTT
CTTCAGTTTGACCCCTATTAATAAGGACAATTCTAAAAATAAATACTGTGTCTGGATATCTGAATCCGTGT
GTGGTCTTTTACTGAAGTTACAGGTTTATAACTCTGCTGACTAGTTTGTCTGGTTTCTGTTATGCAATAGA
AGAGTGCAAATGTTAATTTGATCTGAAGCCCGTGATACAGTGACTTTTATAATGTATATTTAAGATGG
AAAGCCAAGTTTATGAGGCCAGCATTCTTGTCAAGTCCCTCACTCCACCCCTCTTCTAATTGGGCTGAC
CCTTAAGTTGAATAAAGAACAAGAGCTCTGTAGTTAAACATTTCACTGCATGTTGCATCTTGGCCTTA
GTAAATGGAAAAAATAGAGACTTAAGCAGAGAATCTGAACTAGGGTGTGAAATATATATTCACTTTTGG
GGTGGGAGAATGAGAACCATGTTTTACAATAGTATACATAAATTCCTTAGTCTAAATTCAGGACATTTCC
CCAAGATATGTAAGAATTTAGACTTATGCAGACAGACTTTATAAAAACATGCCAATATTTATTAGTTTGT
GAATTTTAATATTCTGCTCCCTATAAACCAGATTTATTTTGGGGATAAAGGGATGGAGGTGACTTCTAA
ATCTTAGAGCAGAACTTCCTGTGGGCAGCTGGACATATGTACCAGGAGCTCAGAGAAGAGGGTTGTGTT
GGGAGCGTACATTCTGAGTGATCTGCATTTGGTGATGATGGAAGCCATGGACATGCACTAGATTGTCTTG
TGGGAGAATATGGAGTAGTAAGAGAAGAAGAACCTAGGATTGAGCCCTGAGCACCTCTGGCTTAATGT
TGGATGGAGGAAATTGAATCTGTAAACAATACCGGGAGGCTGCAGCCTGAGAGGCAGAAGGAACTGGGGT
GTTTGGGATTATGGAAGCCAAGGGAAGGCTGTCTCACAGCGGGAAGGGAGGTATCAACATTGTAAGC
TGCTTCAGATAGGTTATGTAGGATGTGGACTGAAAAATACCTGTAAAATTTGGCAACGCGATTCAATTGGT
AATCCTAGGGAAAGTTGCTTTTTTGGGGTAACAAAGGTGGAACAGATTGGTGTGGGTTGAGCAATGCAA
GAGAGGTGAAGAAAAGGAGATTTTCATGTGCAGACGTTTCTGAGTTCAGCTGGGAACAAGGGATAAGATAG
AAGATGGAAGTTAGAGAGCATGTGGGGCAAGGGAGACTCTTTTATGGGACAGTCTCGCATGTGATCAAAG
CCAATGAGTAAGGAGCATTGAGGGAGAGAGAGTCAATCAACAAGAGAGAAAAGAAAGAGGGTTTCATCAT
AAAATAACGGTAACAACAACGAACATCTTTGAGTGTTTTCTATATCCGGGGAACATATGGTAAACTCCTA
ACCTGCATTCTCACATTCAATTCTTAGAATCGTTGGATGTGGTGGGTTCCATGATTTCTCTAGATTAGC
GAGGAGGAAAGAGAGATCTAGAAATGTCAGGTAGCTTGCTCAGAGTTCTCCAGGTAGTCAGTCATGGACT
AATTTGTGAACTGAAGGACTGAACCTTCGTCACCACCCAGCCACCAAGCCGGCTTGACTTTAGGTATTCT
GTGCTGCATGTGAGTACCGACTTAAATATATTTTAAAGAGGGCTACTTTGAAACTCTCTCTGAAAAAC
TCTATTTCTAAAAGCTCTACCCTCACAACAATTTTGGCAAGCAGTCTTGGTAAAACCAAACCAAACCAA
CCAAAACCAAACCTTATCTGCTGAGAAAATATAACCACATAAAAATATGGTGCTACAAAATATAGACT
GTGTGAACTGAAGGTGACTTGCCCCAAAGGACTCCTGAAGCAATTGGCTGCTGTAGAAATTAAGTCCACGG
GAGGTTTTTTGTTCTGTTTTTTTTTTTTTTTTTTTTTGGAGATGGATTCTCACTCTGTTGCCTAGGCTGGAGT
GCAGTGGCGCAATCTCGGCTCACTGCAACCTCCGCCTCCCGGGTTCAAGCGATTCTCCTGCCTCAGCTTC
CTGAGTAGCTGGGATTACAGGTGTACACCACCATACCCAGGTTTTTTTTGTATTTTTTAGTAGAGACGGGG
TTTCACCATGTTGGTCAAGGCTGGTCTTGAACCTCCTGACGTGCTGATCCACCTGCCTCGGCCTCCCAAAGT
TCTGGGATTACAGGCATGAGCCACCGTGCCCGGCCCATGAGAGGTTTTGTTTGCACCTTCAAGAAGGACAG
AAAAAGGCAGGCAGGCTGGGGAGCAACATAGTAAGGCTGAGGAAGTGATAGGAAAACAGCCTCCAAAAGG
TTTCCCTGTAGATTCTGACTGGCTAAGTTTCCTGAAATAATATTAATTCTGTCTCTTGTCTTTAATAGG
ACATAACGACTATATGTGTCCAGCCACCAACCAGTGACCATTTGATAAAAACAGGAGGAAGAGCTGCCAG
GCCTGCCGGCTCCGTAAATGCTACGAAGTGGGAATGATGAAAGGTGGTAGGTACATCTCTCCAGGGGCC
CTTGGGGATGGCCCTGGCCACCGCCAGTGCTGGCTCTACCCATTGGAATAACACCATGGGAATTTTGTG
TTTTTTTCTTTAATTGTTTTTTTTTCTATTCTTATTTTTCTTTGCAACAAAAGTATTTTCATAATCCATT
TTATTTTAAAAAGGTGGAAGTGTCTGGAACGGAAATTCTAACATGGCATTTTGTGTTTTGGATTTTCAA
TGTAATAATTATATTTTAAATCAAAGGTGTGTGGGAGGCGGTGATGGAAGGAAACGAAGAGTGCTTAGT

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AAATTATTCTAGAAATATTTTTTCAGTTACTGTTTATGTTGCAAATGCTAGAAAAATGATATCTGAGGATAA
ACTTTCCCTAAATTGAGACTTGTAATGTGAAAGCTGAGTAGCTAATTTATAGCCTTCCAGTCTGTTATC
ATCCCTTAAGGAATGTGAATTTCAATCAAAAGGCAGTTTTCTCCTTTAGAACCTGAGTGAACCAGCCACT
TTCTTAACCTCAGTGTCTAGCATGGTGTGGCAGTAGTTGATTACTGAGCACTACACTAACAAGTGTGAGA
GCATGCATGGTTTGTGACTGTGGGTTTGTGTTTTTGTGGTCTTTGTGGCTGTGTGTGTGTGTGGTTTTCT
GTCTTCTCATGTATCCGATCTTCCAGTTTTGTGCATACAGGAATCTGGAACTGAATCCCAGTTCTGGGAA
TATTAGGAGCCCCATAAATGTGGTTGCCTGATTGACCTCATTGTATTCTTGGGAGTCTCATCTTGAGGAA
CATTGCTTCTAGTCTTGGATAGCCTTCAGTGTAGTGGAAGAGAACAAGTAGAAAAATGTGTAATTAATA
AAGTCATGAGGCTGAGGTGGGCAGATCATCTGAGGTCAGGAGTTCGAGACCAGCTTGGCCAACAAGGTGA
AACCCTGTCTCTATTGAAAATACAAAAATTAGCTGGGTATGGTGGCGAGTGCCAGTAGGCCCAGCTACTT
GGGAGGTGGAGGCAGGAGAATCACTTGAACCTGGCAGGTGGAGGGGGCAGTGAAGTGAAGTGGCGCCACT
GCACTCCAGCCTGGGTGATAGAGTGAGACTCTGTCTCAATAAATAAATAAATAAATAAATAAATAAATAA
ATAAATAAATAAATAAAGTAACGGATTCAATTTAGTGTTTCAGAAGGATACTGAAGGGAGGGAAGGGCTGA
TGATGGTGCTACCTGCTGATTGTAATAGGGAAAAGCCCCGTTTCTTTTCTGAAGGAGGTGAAGCTTGGGGT
GATTTAAGGAGAACAAAATTTCAATGAAAAGGAATAGTGATTTTGAAATAGTGGGCAGCTAACCTTTAA
ATCATTCTTACTGGGACGCAGGAGGAAGGAGAGGAAAAGACCAAGAATGGAGATTATGATGAAGACAAGCT
TGATTGTTAACAAGCTTACAGTGACAGGTTTCATAGTCCCGGGGTCTATAAATACGCCAGACAGGTTGAGG
TTTGAATGCAGCATTTGGAATAAATTCTCCTGGTGAAGAGATGCAATGTTGAATTTACGCATTCTGTGA
GCTGTGACTATGACTATACATCTTGAACATCTGAAAAAGCAGCTTTAATTCAAAGGGTAATTAATTCCAA
GAATTTAACAGCTACATTCAGAAAATGACACTTGAGTCATATGGATTAAATATTTAAGGAATTCATCTTT
CTTTGTACTGTTGGAGAATTAGTCAGGCTTAATTAACCTTACAAAATGCGTCTTAAGGTAAGTTGGTAAG
TGACAGGAATATAACAGCTGCATAAGAAAAGCTTTATTTGAAACAGTGGAGTCGAGGTTTAATATTCTTC
TTTGGCGATTATATGTAGGTTAAGCACAGGCTCTTCCATACATTCTCCTTGAAAGCTGAAATAATCAAGT
CATGAATATGTCCAAAAACAATTTTTTAAAATGTGAGGGGTACCCATGCATTGACCCCATTTTCATAAAACCG
ATTCTGTTTTTTTTTTTTGTAAATTAATATCCAGATACGGTCTGGCTGCATGAATATAAATTACGCATTCTC
ATTTTTAATCTAACAAAAATTCATATATGCAAAGACATAATAAAGTCTCCCCACTGTTTTCTCCTAGGA
ATCTAGATAATTTGACTGTACACAACAGACTGTGGATGGCTCCATACACACTTGCACATGTATATTGATG
ACTGTAAAAATATATATCTGTATTAGTTTTCTAGGGCTGCCATAATGAAATACCACAGGCTGGGTGGCTTA
AACAACGGAAATTAATTTTCTCCCAATTCTGGAAGCTGGACATGCATAATCAAAGTCTGGAATATTTGG
TTTCTAGTGAGCCCTCCCTTTTTTTTTTTTTTGAGAGATGGAGTCTTGCTCTGTTGGCCAGGATGGAGTGCA
GTGGCACTATCTCAGCTCACTGAAACCTTCACCTCCAGGTTTCAGGCGATTCTCCTGCTTCAACTTCCCA
AGTAGCTGGGACTACAGGTGTGTGCCACCATAACCCAGCTAATTTTTGTGTTTTTTTTTTTTGTAGAGACG
GAGTTTCACTCTATGTTGGCCAGGCTGGTCTTGAACCTTGACCTCAGGTGATCCGCCACCTCGGCTTC
CTAAAGTGCTGGGATTATAGGCGTGAGCCACCATGCCCGGCTGTGAGGCTCTCTTCTAGGCTTGTGGC
TAGCCGTCTTCTGCCTGTGCTCCTCACATGGCCTTCTCTGCGTCCGAGCACTCTTGGTATCTCTTTCTC
TTCTCACAAAGCCCTGTTGGATTAGGAGTCCACCCTTATGACCTCATTTAACCTTAGTTACCGCCAAAAAG
GCCCTATTTCCAAATATAGTCATACCAGGGGCTAGGGCTTCAACATACAAGTTTGTGGGGACACAGTTC
ATAACAGGCTGCCCTCCCAAATACCATAGACTGGGTGGCTTAAGTAACGGAAGTCAATTGCCTCATAGC
TCTGGAGGCTGAAGTCTGAGACTAAGGTGTTGGCAGGTTTGATTTTTCCCGAGGCTCTCTCCTTGGCTT
GAAGATGGCTGCCTTCTCTCTGTGTCCCCACATGGCCTTTTCTCGGGGCATCCACAGCTTCTTCTTCTC
TTACGAAGACACCAGTCATATCGGATTAGGGCCCCACACACAGGACCTCATTGAATCTTAATCACCTCAC
TTAAGGTACAATTTCCAAATACAGTCACATTCTGAGGCCCAGGGGGTAAGATTTCACATATGAGTTTTA
AGGGTACACAATTCAGTATGTGGCAATATCCCATAGGGGTACTCAGTGATTGTTTCAATATGAGTTTTA
TGTAAGGAAAACATGTATCTTTCTGGCAGTTTTTATATGTACATAAGTTTTAAATGAAGCTTTAAATTCA
TAAATTATAGCCGTGAGAACATCTTATTTTAAATGATATGTATAAAGTACTTGCCATAAATCAATATAA
TTTATTGTATTTTCTACAACATGGAATACCACACATGGCCACAGGATACCCTCTATAAACAACCTCCTTGAA
AAATCCCATTGAATAAAGCCTTAATTTACAACCTGGAAGTACAATGATAACTAACTATAAAATGTGCAGTC
ACATGGCAAAGGCCAGCTGTGACTGAATAAATCTTTACAACATGTTTTCAACCATTAGGGTTCACAACAA
TCCACTTTCTTAACCAGGCTGGTTACCAACTAGGATATTGAAACTCTACCTATGAAATAAAAAGTTTAGT
TTCAGTTAAAAGAGAACCACAGACCTACTCCCTATTTTCATAGCAAGGCTGAAAAAATTCAGTGAAGATC
TATTGTAAAGATCCAAAAGAGTGCATGATTTGTCTCCATGAACTAACAATTTTAATCTGTTATAATACTT
ACTGCCTCTGAAAAATCCCAGCATCATTATTAGATTTGGTTCTGAATCATGGTAGTTCTATAAGATGCAGG
ATTTGAATTGCACTTTTCGGAATGTGCTTTTCTATCCTAGTACATGTGCTGGTTTCTCTGCATTGCTTTT
TCCTCTTCATTTGTCTCCTTCTTGAACCTTTAGGTTGTAGATTACATGTCTCTTCTTCAGGAAGGCCT
ACACAGTTACCTGACAGTTTCTGAGGCTCGAAGTTCAAAATCAAGGTGCTGGAAAATTCATGTTCTAGCT
TTAATGGCAAACAGCTCTTCTCTTAGCTCTTATCACCATTATTATTAGTCATTCAATGTCTGTCTTTACA
TATGGTCCATAAACTCCATGATGGCGCGGGGGTGGGGGGTCTCTGTGTCTTGTGTTACCGATCTTGCATGA
AACAAGTCACAAGGTAGGTGTTCAAGAAGTATTTTTTTGCACTAATTAATGAATTGATTCAATTCATTTA
AATAGTTATTTGTGTAGGGCTTCTTATATGCAAAACCTTGGGAATAAAGCAAATATGAATAAGATTGTAG
TCCCTTCCCTCAATGTCCTCACAGTATAAAGAGAACATTTGCATGGGAAGCGGCAAATAAAAATCTCAAC
GGCAAGTGGAGACTGGGTTGCAAGATGGCTCAAATATTGAATGATCAGAATGGGAGTCTAGAGCTTTAAA
CAACCACTCCCAGGTTTAGTCCAACCTCAGAGTATTACTCAGACACCTGACATCCAAGACATATATTATTA
CTCAAGAATGTGGCCTTTTTGTGCTGAGTTTGGTAGAAAGAGGAACTCTTCCAAAGATAAATGTGTTCAAAT
GCTGGCTCCTCCTCAAACCTTGCTGAACAACCTTGTTAAAGTCACTTTTATGAGCTTCACTAATTTCAAAT
ATGAAATGGAGATAAATAAATTTTATTGTCCAAGCACGGTGGCTTACGCCTGTAATCCCAGCACTTTGGG
AGGCTGAGGTGGGCGGATCACCTGAGGTGAGGAGTTCAAGACCAGCCTGGCCAACAAGGTGAAACCTCGT
CTCTACAAAATTAGCCAGGTGTGATGGCAGAAGCCTGTAATCCAGCTACTCAGGAGGAGGAGGCAGGAG
AATCACTTGAACCCAGTAGGCACAGGTTGCAGTGAGCCGAGATTGCACCACTGCATTCCAGCCTGGGCAA
CAGAGTGAGACTCTGTCTCAAAAATAAATATATAAATAAACAATAAATAAATTTTACTTAATGAGTTTG
TCATGAAGATGACAAATCGTAACATGGGAAAATATAAATCTAAAGTGCCACACAAGTGTAGCTATTACA
TATCTTTTTTGTCTTAAAAATAATTACTATCTTAGTTAAAAATTTTCATCATATACGAGCACTGCTGGGTT

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AATTCTTACTTTTTGCCTTTTGTATATTTGCTACAGGATTTTGCTTTGTGATTACCATAAGGCTTACATA
AAAGATCTTATAGTTATACCAGGCTATGTTCAACTGTTTATAACATAACTTTGATTAAATTTTTTAATACT
CAATTTATTTGATTGCTTATTTAGAGATAATTTTGATTCCATCAGAAAGAAACTGAGGTATCTTTATGT
ACCTTTTTCAGGAATGACCACGTCTCACCTTACCTTGAATGTTACAAGAAATGCTGGCAGTGACTCAAGGC
CAGGCAAAAATTTAGAAAGGGTTTATCTTGTGTTGTACAATTTCTTTTGCAAAAATAAATGATTCTTGA
TATGATGTAAGGACTTTTTCCGTAGATAGAACCTATAAAATGCAGAACTTTGGGGCAGTAATTATATGAA
TGAATTGCTACTTTAAAATTCTGTAAGTCCCCAGGAATTTCCATATGCTTTTTTTTGTGTTTTCAGTGG
TTGTGATCAGGCTAATGGGTAGTTTTTAGAGCTGAAAAGAACTTAAAGATCATCTAGTGCACCTTTTTGT
TTTTTCAGTTGGATTGTTCTTGTCCAAATCACTAAGCTAAGTTAACTGCTCAGACAGGAAACCAAGTCTCC
TGACCCATGGTTTAAATGCTCCTTTTCATTGTTATGCGTCTGCCTGGCTGACCTGTTAGTAACATAAAGTGT
CATGAGAGATAGACATATGCATGAGTAAGATATTAATATCCATAAAACCAAACTGTGACTTAGGAAATG
TTACGGTGGGCACAGGATATTACTCCTCTTCAACAAAAACATCAATCATATGTTGGCTTAGTTGCACAGC
AGAAGTACCAAAAATAAATTTATATAGACGGTGTACAGATACTTTAAAAAGACCTACTTAAGATTTAATT
ACCTAATATTATTTAATATTTAATATAATTTAAAAGGGGCATTTTTATCTTTCAGCCAAGGTTTTAATTG
TTTTTAGATAATCTATTTTTGAAAGTCTGATTTTGTTTTAAAATGCCATTCTGGTATATAAAAAACATC
ATTTTGTCAAATAGGAGTCCCAGCTAAGGGCCAAGCGTGCAATTAACCTTGACTCTTTACCTACTACCTA
GGAACCTTGGGCAGATCACATACTTTTTCTTCACTCAGTTTTTACTTCTGAAAAATGCCAGCTGAAGTAT
GTTTCAAATCTTAAATTTTATGTTTTATGATCTAAGTTTCAAGTTAACAATGGAATGGTTAGAATCCAAAG
CTAAAGGTAGTATATAACAAGTGTATATTGGGGGTTGGGAGCAACTGCCGCAGCTATCATATTTACATTTT
AAGCTCAATTTAGAACAACTGCGGGCAACTGTAAAAACCGGTAGGAATGGGCAGAGTTATTGTCTTCACT
AGTCATTGTGGAAAGTGAATCTCTTCTGAATGGAGAGTCACAAAAATGAGTTTGATGCTTTCATGATAGT
GAAATGAGAAGATGGCCATATATTGCTATAAATCACCAGCAACATAAAAAAGAAAAAATTCAAAAATCAAGT
TTGTTGAGGCAGGACTCTGAAAAGATAACTAAGCTTTTTTTTTTTTTTTTTTCTGTTAGAGATGTAATAA
TCATGACTAAGACTGGAATCCCAAGAGCTGGTGAGACTTTCTAGTTTCTGCCTTGTGGAAAGAGAAAGGA
AGAGGCCAAAAAAGATAATGAATTTTGGAAAGTTCCTGATTAAATATCGCATAGGCTAGTCTGGTTATGT
CTGCTTGAAAACTTATCCAGTAGGTATAAACCAACACACTTGAGGCCAGTCTTTTTGGAAATTACAGAAA
TATATGTCAGCCTTAAGAGACATCCTATGATGAAGAGCAGAGGGAGTTGTTTATAAAGAAATGTTCTCAT
TGGCTGGGCATGATGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCGAGCTGGGTGGATCACTTGAG
ATCAGAAGTTCAGAGCAGCCTGGCTAACATGGTGAAACCCGCTCTCTACTAAAAATATAAAAAAATTAG
CCGGGCATGGTGGCGGGCGCCTGTAGTCGCAGCTACTCGGGATACTGAGGCAGGAGAATGGCGTGAACCT
GGGAGGCGGAGCTTGCAGTGAGCCAAGATCGTGCCACTGCACTCCAGACTGGGCGACAGAGCAAGACTCT
GTCTCAAAAAAAATTAGCCAGGCATGGCGGGAGCGCCTGTAATCCCAGCTACTCAGGAGGCTGAGGCA
GGGAAATTGCTTGAACCCAGGAGGTGGAGGTTACAGTGAGTTAAGATGGCACCATTGCACTCCAGCCTGG
GTAACAGAGCTAGACTCCATCTCAAAAAAGAAAAGAAATGTTCTGGTCATGCCTGGAGATAATACATGG
TTTAGTTTATGCTTGATTGAGCAAAATAAAAAATTGGTGAGGAACATACAGAATTATATTTAGGTGATTATA
TTTTTTATATTTTATATATAAAATTTATATTTTTTATATTTTAGGTGATTATATTTTAAACGCTTGCTT
TACAAGACTAATCATTATTACTTTTTTAAGTTTTGTGATATATTTTATTTAACTAATATACCCCAAATAG
TATTTCAATACAGAATCAACATTTAAAAATTATTGATACATTATGTATGTTTTTTTCCCTTCACTAAGACT
TCCAAATCCTCCAAGTGTTCACACTTACATCTTATTTTGGACCAGCCAGATTTTAGTGCTCATTTGACC
ATGTGATCTGTGCTTAAGGAGGCTGCTGGAGCTGAGGCTGGGCTGCAGTACCAACATAGAAGTCTTTATC
TGTCAAACCAGGAGTTTGAATCCCTGAGGGATATGGGAACCATAAAGGATCTTAAGCAGAGAAGTGACT
TTCTTAATTTTGAACCTATCCTGGTGTCTCATAGATTAGAGGAGAGAGATTTAGGAGTGAGGGATCAAG
CAAGAAGGTGGCTCCACATTGTTTTCCATAGTAGTTGTACTAGTTTACATTCCCACCAGCAGTATAGAAA
TGTTTCGCTTTTCACTACATCCACACCAACGTCATTTATTTTTTGATTTTTTGAATGGCCATTCTTGTTG
GGAGTAAGGTGGTATTGCATTGTGGTTTTGAGTTGCATTTCCCTGATCTTTGGTGATGTTGAGTATTTTT
TCATATGTTTGTGGCCACTTTGTATCTTCTTTTGAGAACTGTCTATTCATGTCCTTAGCCCACTTTTTG
ATGGGATTGTTTGTTTTTTTTCTTGCTAATTTGTTTGAAGTTCCTTGATGTTCTGGATCTTAATCCTTTG
TTAGATGTATAGATTATGTCTCCTTCTCTGTGGGTTGTTTGTGTTACTCTGCTGCTGCTCCTTTTGTGCAA
AAGCTCTTTAGTTTAACTAAGTCCCACTTATTTATCTTTGTTTTTGTGCAATTTGCTTTTGGGTTTTTGG
TCATAAAATCCTTGCCTAAGCCCATGTCTAGAAGGGTTTTTCTGACGTTAACTTCTAGAATTTTATGGTT
CCAGGTCTTAGATTTAAGTCCTTGATCCATCTTGAGTTGATTTTTTGTGTAAAGTGAGAGATGAAGATCCA
GTTGCATTCTCCTACATGTGGTTTTGGCAATTATCCCAGTACCATTTGTTGAATAGGGTGTCTTTCCCCA
CTTTATGTTTTTGTGGCTTTGGCAAAGAGCAGTTGGCTGTAAGTATTTGGGTTTATTTCTCGGTTCTCT
ACTCTGTTCTTTGGTCTACATGCCTATTTTTATACCAGTACCATGCTGTTTCGGTGACTATGGCCTTAT
AGTATAGTTTGAAATCAGGTAATGTGATGCCTCCAGATTTGTTCTTTTTGCTTAGTCTTACTTTGGCTAT
GTGGGCTCTTTTTTGGTTCCATATTAATTTTAGGATTTTTTTTTCTAGTTCTGTGAAGAATGATGGTGGTA
TTTTGATGGGAATTGCATTGAAGTTGTAGATTGCTTTTGGCAGTATGATCATTTTTACAATATTGATTCT
ACTCATCCATGAGCATGAGATGTGTTCCATTTGTTTGTGTGTCATCTATGATTTATTTCTTTGAGAGGTGT
TTTGTAGTTTTCTTTGTAGAGGTCCTTCACCTTCTTGGTTAGTTTTTGTTTTTTTTTGGTTTTTTTTTTTT
TTTGCAACTATTGTGAAAAGGAGTGAGTTCTTGATTTGATTCTCACCTTGGTTGCTGCTGTTGGTGTATA
GCAGAGCTACTGATTTGTGTACATTAATTTTGTATCCTGAAACTCTGCTGAATTCATTAATCAGTTCTAG
GAGCTTTTTGGGGGAGTCTTTAGGCTTTTCTAGTTATAAAATCATATCATCAGCAAACAGCGACAGTTTG
AATTCCTCTTTACTAATTTGGATGTCCTTTATTTCTTTCTCTTGTCTGCTCCGGCTAGGACTTCTGGTAC
TGTGTTGAATAGTGAGAGTGGGCATCTTGTGTTTTGTTCCAGTTCTCAGAGGAAATGCTTTCAACTTTTCC
CCATTCAGTATTATGTTGGCTGTGGGTTTATCATAGATGCCTTTTATTACAGTGAGGTACCTTGTATACC
GATTTTGCTGAAGGTTTTAATCATAAAGGGATGCTGGATTTTGTCAAATGCTTTTTCTGTATCTATTGCG
ATTATTGCGATGGTCATGCGATTTTGTGTTTTAATTTTGTTCAGGTGGTGTGTACATTTATTGACTTGC
ATATGTTAAACCATCCCTGCATCCCTGGTATGAAACCCACTTGATCATTGTGGATTATCTTTTTGATATG
CTGTTTGAATTTGGTTAGCTAGTATTTCTGTTAAGGATATTTTTTTGAGATGGAGTTTTGCTCTTGTGCCC
AGGCTGGAGTGTAGTGGCACTGCAACTTCCACTTTCTGGTTTCCAGCGATTCTCCTGCCTCAGCTCCCTG
AGTCGCTAGGATTACAGGCACCTGCCACCACACCCAGCTAATTTTTGTATTTTTTAGTAGAGATAGGGTTT

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CGCTATGTTGGCCAGGCGGGTCTTGAACCTCCTGACCTCGTGATCCACCTGCCTTGGCCTCTCAAAGGACT
CTCAAAGTGTGTTGGGATTACAGGCGTGAGCCACAGCGCCCGGCCAGATTTTGCATCTATGTTCAATTAGGA
ATATTGGCCTGTAGGTTTTCTTTTTTGTGTTTCTTGGTTTTGGTACAAGGGTGATACTGGCCTC
ATCGAATGATTTAGGGAGGATTCCCTCTTCTTCATCTTGTGGAATAGTGTCAATAGGATTGGTACCAAT
TCTTCTTTGAGTGTCTGGTAGAATTCAGCTGTGAATTCATCTGGTCCCTGGACTTTTTGTGTTGTTGGTAA
TTTTTAAATTACCATTTCAATCTTGCTGCTTGTATTGGCCTGTTTCAGGATTCTAATTCTTCCTGACTT
AAGCTAGGAGGTTTGTATCTTTCCAGGAATTTACCTATCTCTTCTAGGTTTTCTAGTTTATGTGTGTA
GGTGTTCATAGTAGCCTTGAATGATCTTTTGTATTTCTGTGGGGTTGGTTGTAATATCTCCTGTTTGT
CTAATTGAGCTTATTTGGACCTTCTCTCTTCTTTCTTGGTTAATCTTGCTAATGGTCTATCAATTTCA
TTATCTTTTCAAATAACCAGCTTCTTTTGTTCATTTATCTTTTGTATTTTTTTTTTCAATTTCTTTAG
CTCTGCTCTGATCTTGGTATTTTCTTCTCTGCTGGCTTGGGTTTCGTTTGTGTTTTATTTCTGTAGTT
CCTTGATTTGTGACCTTAGATTGTCTATTTGTGCTCTTTCAGAGTTTTTGGTAGGCATTTAAGGCTGTG
AACTTTCTCTCTCGCATTTGCTTTTGTGTATCCCAGAGGTTGGATGGTTGTGTCACTATTATTGTTCAA
TTCGAAGAATTTTAAATTTTCATCTTGATTTCAATTGTTGACCCAATGATCATTTCAGGAGCAGGTTATTT
CACTTCCATGTATTTGCATGTTTTGGAAGGTTCTTTTGGAGTCGATTTCCAGTTTTATTTCCACTGTGGA
CTGAGAGAGTAGTTGACATAGTTTTAATTTTCTAGTTTTTTTGGACACTGTTTGTGGCATATCATATGG
TCTATCCTAGAGAAAGTTGCATACGCTGATGAATAGAATGTATATTCTGTGGTTGTTGGGTAGAATGTTA
TGTAAGATCTGTTAAGTCCATTTGTTCCAGGGTACAATTTAAATCCATTGTTTCTTTGTTGACTTTCTG
TCTTGATGACCTGTCTAGTATTGTCTAGTGGAGTATTGAAGTCCCCACTATTATTGTATTGCTGTCTGTC
TCATTACTTAGGTGTAGTAGTAATTGTTCTATACATTTGGGAGTTCCAGTGTAGGTGCATATATATTTA
GGATTATGGTATTTTCTTTTGGACAAGGCCTTTTATCATTATATAATGCTCTTCTTTGTCTTTTTTAAC
TGCTGTTGTTTTAAAGTTTGTGTTTGTCTGATATAAGAATAGCTACTCCTACTTGCTTTTGGTGTCCATTT
GCATGGAATGTCTTTTCCACACCCTTACCTTAAGTTTATGTGAGTCCTTATGTGTTAGGTGAGTTTCTT
GAAGGCAGCAGATACTTGGTTGGTGATTGCTTATCCATTCTGCAATTCTGTATCTTTTAAGTGGAGCATT
TAGGCTATTTAAATTCATGTTAGTATTGAGATGTGAGGTACTATTCTGTTCAFCATGCCATTTGTTGCC
TGTATACCTTGGATTTTTTTTTTAGTAGTATTTTTGTTTTATACCTCCAATGAGATTTACACATTAAGGAGG
TTCTGTTTTGATGTGTTTCCAGCATTTGTTTCAAGATTTGGAGCTCCTTTTAGCAGTTCGTGTAGTCATG
TAGTGCTGGCTTGGTAGTGGCGAATTCTCTTAGCGTTGTTTTATCTGAAAAAGACTGTATCTGTCTCTC
ATTTAAGAAGCTTAGTTTTGCTGGATACAAAATCTTGGCTGCTAATTGTTTTCTTTAAAGAAGCTGAAG
ATAGGGCCCCAATCCCTTCTAGTTTATAGGGTTTCTGCTGAGAAATCTGTTAACTTGATGGGTTTTCTT
TATAGGTTACCTGGTGCTTTTGCCTCACAGCTCTTAAGATTATTTTTCTTATCTTAACCTTAGATAACCT
TATGACAATGTGCTTAGGCAATGATCTTTTTGTGATGAATTTTTTCAGGTGTTATTTGAGCTTCTTGATT
TGGATGTCTAGGTCTCTAATAAGGCTAAGGAAGTTTCTCAATTATCCCCCAGATATGTTTTCCAAAC
TTTTAGATTTCTCTTCTTCTCAGGAACACCAATTATCTTAGGTTTGGTTGTTTAAATTCTGTCCCAAAC
TTCTTGGAGGTTTTGTTTCAATTTTTTTTTTTTTCTTTCTTTTTTTTTTTAATTGATCATTCTTGGGT
GTTTCTCGCAGAGGGGATTGTTGGCAGGATCACAGGACAATAGTGGAGGGAAGGTCAGCAGATAAACAAGT
GCACAAAGGTCTCTGTTTTCTTAGGCAGAGGACCTGCGGCCCTTCTGCAGTTTTTGTGTCCCTGGGTAC
TTGAGATTAGGGAGTGGTGATGACTCTTAACGAGCATGCTGCCTTCAAGCATCTGTTAACAAGCACAT
CTTGCACCGCCCTTAATCCATTCAACCCTGAGTGGATACACCACATGTTTCAGAGAGCACAGGGTTGGGG
GTAAGGTACAGATCAACAGGATCCCAAGGCAGAAGATTTTTCTTAGTACAGAACAAAATGAAAAGTCT
CCCACGTCTACCTCTTCTACACAGACACGGCAACCATCCGATTTCTCAATCTTTCCCCACCTTTCCCC
CCTTTCTATTCCACAAAACCTGCCATTGTCTATCATGGCCCGTTCTCAATGAGCTGTTGGGCACACCTCCCA
GACGGGGTGGTGGCCGGGCAGAGCGGCTCCTCACTTCCAGTAGGGGCGGGCGGGCAGAGGCGCCCTCA
CCTCCCGGACGGGGCGGCTGGCCAGGCGGGGGGCTGAACCCCCACCTCCCTCCCGGACGGGGCGGCTGGC
CGGGCAGAGGGGCTCCTCACTTCCAGTAGGGGCGGCTGGGCAGAGGCGCCCTCACCTCCCGGACTGGG
CAGCTGGCCAGGCGGGGGGCTGACCCCCCACCTCCCTCCCGGACGGGGCGGCTGGCCGGGCGGGGGGCT
GACCCCCCACCTCCCTCCCGGACGGGGCGGCTGGCCGGGCGGGGAGCTGACCCCCCACCTCCCTCCCG
GACGGGGTGGCTGCCGGGCGGAGACGCTCCTCACTTCCAGACGGGGTGGCTGCCGGGCTGAGGGGCTCC
TCACTTCTCAGACAGGGCGGTTGCCAGGCAGAGGGTCTCCTCACTTCTCAGACGGGGCGGGCCGGCAGAG
ACGCTCCTCACATCCAGACGGGGCGGCAGGGCAGAGGCGCTCCCCACATCTCAGACGATGGGCGGCAGG
GCAGAGACGCTCCTCACTTCCCTAGATGGGATGGCGGCCGGGAAGAGGCGCTCCTCACTTCCCTAGATGGGA
TGGCGGCTGGGCAGAGACACTCCTCACTTTCCAGACTGGGCAGCCAGGCAGAGGGGCTCCTCACATCCCA
GACGATGGCGGCCAGGCAGAGACGCTCCTCACTTCCAGACGGGGTGGCCCCGGGCAGAGGCTGCAATCT
CGGCACCTTTGGGAGGCCAAGGCAGGCTGCTGGGAGGTGGAGGTTGTAGCGAGCTGAGATCACGCCACTGC
ACTCCAGCCTGGGCACCATTTGAGCACTGAGTGGGTTTTGTTTCAATTTTTTAAATTCCTTTTTCTTTGTCT
TTGTTGGATTGAGTTAATTTGAAAACCTTGCTTTGAGCTCTGAAGTTCTTTCTTATGCTTGTTTTATTC
TATTGCTGAGACTTTCAAGAACATTTTGCATTTCTCTAAGTGTGTCTTCAATTTCTTGAAGTTGTGATTG
TTTTTTATTTATACTAACTATTTCACTGAAGATTTCTCCCCTCATTTCTTGTATCATTTTTTTGACTTCC
TTAAATTGGACTTCACCTTTCTCTGGTGCCTCCTTAATTAGCTTAACAATCGACCTTCTGAATTCTTTTT
CAGGTGACTCAGGGATTTCTTCTTGGCTTGGATCCATTGCTGGTGAGCTAGTGTGATTTTTTGAGGGGTA
TTAAAGAACCTTGTTTTGTCTATTACTGGGATTGTTTTTCTGGTTCTTCTCATTTGGTAGGCTATGTC
TGAGGGAAGTACTAGGGCTCAAGGCTGCTGTTTCAGATTCTTTTGTCCACAGGTTGTTTTCTTGATGTAG
TACTCTCCCCCTTTTCTTAGAGATGTGGCTTCTTGGGAACCGACCTGTAGTGAAGTTATTTCTCTCTG
GATCTAGCCATTTCAGCAGGGGCTACCAGGCTCCAGGCTAGTACTGGGGGCTGTCTGCTCAGAGTCTGTGC
TATGGGCTGTTTTTCAAGTCTCACAGCGTTGGATTCCAGCACCTGCTCTGATAGAGGTGGCAGGGGAGTGA
AATGGACTCTGCAGGGGTCTTAGCTTTTGTGTTTAAATGCACTATTTTTGTGCTGCTTGGCCTCCTGCC
AGGAGGTGGCACTTTCAAGACAGCGTCAGCTGTGGTAGTATAGGGAGGATCAGGCAGTGGCCAGGGCCTT
AGAAGTCCCAAGAGTATATGACCTTTGCCTTCAGCTACCAGGATGGATAGGGAATGACCATCAGGTGGGG
CAAGGCTAGGACTGTCTGAGCTCAGACTCTCCTCGGGTGAGTCTTGCTGAGGCTGTGCTGTGGGGCAGGG
GGGTGAGGTTCCAGGTCATGGAGTTATGTTCCAGAGGATTATGGCTGCCTCTGCTGCGTCATGCAGG
CTGTCAGGAATGTGGGGGAAAGCCGGCAGTTACAGGCCTCACCCAGCTCCCTTGCAACCCCCAAAACCGG

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TCTCACTCCTGTGCCCTACCAACAGCATCAAGTTTGTTCAGGCAGCGGATGAGCAAGGCTAAGAACTT
GCCGACAGGCTACCAGCCTCCCAGCAAAGAATGTAAGTAGGGCTTTTCATGCCCTCCCTTCCTGTTGAATCTG
TACACCAAATTCACCTCCCTCCCCAAGTTCTGGCCAGGTGACTTCATGTTTGGTTGGAATTGTTACAAAG
TTCAGCTEGAGGTTTCCTTCTCGCTGTGGTCTTTTCCCAGTTCTCTGGCCACCCTCCCCAAGGACCCCT
GTGAGACAAGGTAGAAATGGCTTATTAGGGGACCCAGAGAGCCACAGGGCTTTTCCCCTTGCTTTCTCT
ACCCTTTATTTCACTCAGCTGTCTAATTAAATCAGCTCCAGGTAAGTTCATATCCTTCTCCCATGATCTG
GAGCTGCAGATTCCCCAGTGAGGGTGTGTGTTGCGGGGTGGGCTATCCCCCTTTCCTACTTTTACAGCTT
GGGCACTCACAGTATTTGGGGTGTCTCCTGGGTCTGTAGGAGCAAACCTGCTTCCTTACAGGGTCTGTG
GATTCTCTTGCTTTTCTGGTATATTCTGTAGTAGTTCTGGAGCAGAAGTTTATGGTGTGAGTTTCCAC
ACACTGCTCTGTTTCATCCAAGTGAGAGCTGCAATCTAGTCTGCCTCCTTTCCACCATTTTTTGGCCTTG
ACGTATTACATTTATTTTATGTTTGAAGTTTGGCAGTTTATTTTGAATAATTTACATAACAAATGCCA
AGCCAAATCCAACTTCTTGGCCTAAATCATTACAGATAACCTTTACTGAGCATTACTACATGAAGGT
GTTGTTGACACAGGGGATTTAAGATGTGATCACTGACCACAACATCCAGGCAACCTAAAAGTGAAAAGAG
GTCATTACAAAAAATAGGACCAAACCTCCTCCATTCTCAAGGGACCTAGGACTGGAGTTGGCCTAAAA
ATTCCTGCTGTATCACCTCACCCACAGTTTGTATCTGCTCTCAGGGATCAAGGAAGCTCAAGGTTTCT
GGCCCTTTTGGCTCATGTTCTTGGAGGTATATTCTATTGTCAAGTTAAAGTCGTACCCATCCTAGATCTG
TTTCTCTCTCTTGTGGTTCAGTCTCATAGAAAACATAACTATGTGAAAACACCAACTACCCCATAAAG
CTATTCTGAGACTCAAAGACATGAACCTCTATTTTGATAATCACAAATTGATGTATAGATGTCAGATATCA
TTCATGTATTATGTAGCATTGTGGTTAAGTCTTAGCTGTTGGAATCAGACTACTTGCATTCAAATTTTA
GCTCTGTTGATAGGTGTGTAACCTTGAACAAGATACGTAACCTCTTCAGACCTTTGTCTCTTTGTTTGTG
AAATAACGACAATAATAACTAAGTATGTATAAGGAGGCATGTAAAGCTTCTATTGTATTT
GGCTTATGGTGAGCCCTTCATATAAATTGGTTACAATGGGTAATGAAAAGTACGTTCAATTTTTTCCCACA
AGGATTTAATCTAATCTCTAAATAAAATGCCAGTTTGTAGTATACTGTCTATCATTATAAGGAACTATAAT
TCTTAAGTAATTAATTACTTTGGTTCCCTTTGGATAAATTAGTGATACATAAAATGCAGTACCTTGCCCTG
AGGAACCTACAAGTTAGCCTCCCTCTAATCCTGGCATTCAAAGTCCTCCACCTTCCGAATTACACCTGTT
TTTTCAGGCATTGTCTCCCACTTTCTAGCAAGCCTTTGGCTCCAGGAACTGTTCTGTTCAATTGACGAC
AGAATGTATTTTGTCCCGTATGCCTCCCTTCAATCTGAAGTTTCAATTTTGTAGTAATTTTTTTTATTAGTAG
TGACTTTCCCCATTTACTAATGCCTTTCTCTTTAGCTCATTTAGAATTCCCTGGAAGTCATCATGTTTTC
CTTCTGAATTGCTATCATATTCTGTCTCTGTGTCTAATCAGAAAGTTAGGTGAGCTGCTGTCTCAGCTCC
TGTGTTAATCCAGGTACTGAGCTCTTGTACCTGCCAGCTTGAGGGCAACTTGATGCGCTGGTGTGTA
GTGATTTGCAACTGTGAGAGAGCCGTTTCCATCAACAAGTGACAGCTTTTGGTTCTAAACACTGCTTGAC
CTCATTCTGGTTTGAACATATACTTTGGCCTCTGCCCTCTACCTCACCTCCAGTTCTGATCTTGGGCATG
CCACAGAACCCCATCTACACTAGGCTTTTCAATTTGGACTTCTAAGTCCTTTACTTGACCACTTATTTTCT
TTAATTGCTAGACTTAATCATCCATGCATATGACAGCCACTCAGCTCTGACCCCAATACTTCATTGAGGC
TCATGCCAGTCTGACCTCTCACAGGGAAGAGCACCCCTGCCGGTGAGCCCTGGCCCTTGGATTATGCTG
TCCACCAAGTGCCAGCTGGCTGCTTGGCACTGCATGTGATGTATCTTTGTTTATTGATCGCTTAATTGA
ATGGGATATAGGATTATATTCATGTTCCAGATCAAGTTGAGCCAAGCTGACAACTTAGTATTAAAAAAA
TATATTTATCTCTATCTGTCCAATTAATAATTTAATTTCTAGAGGTAGAGACAGTCACATTGCTATTTA
ATTCCTAGCACAGCAGTATTTTTGTCAATATTTGTTATTAGTGGTGAGTTTAAATTATAAAGGAAAAAAG
AGAAGTGGTGATTATGTGTCAGCGCTTGGCTAAACTATTTCCCTTGATATAAGTCTATTATTCAGGTACAT
AAGCATGACTGAAGTAATATCACAAACATAATATCATAATTATCTCTCTTGCTGTCTCTGTCACTTTCTC
ACTTTTGTGTTGTGCATAGTGCATAGACCTGTAGAAAATTTATTAGTAATCTGAAGCATAAAACCAAATAT
TACAACATATCATAACAAATAAATAAAACTGTGCACTCCTTTAGGGAGTAGTAAAGCCATTTCTAAAATTA
AGTCAAAGTAAGATTCCTTATTATTGAGATATTTTAGTGGTATACACTATCATAAGTAAGATGAATAAT
TTTGTAGCAGCTGACACTGCTATATAGATATTTATCTTGGGAAGTTCTCAGTGTAACATCTTTACTGTG
TTTTTCTCTTTAGATTATACTTTTATGTTTATTATTTTGTTCGTGGGGGATTCAAAAATATGCATTTTA
TGCCATACTTGGGGATTCCCTATAAATTATTAGTTGTAATATGACAGTTCCATCATGAATTTTCCAGGTA
TTCTTTTATGCAAGCAGATAATAGCTCATTTTGGTTTTTAACACATTCATGCATATTTCTTCTCTCAA
TAAATATGGTTTTAATTTATTAAATGAAAGATTTAAAAATGTGCTAAGCATTTTAATAATAATCGATTTT
GGATTAACCTGTTATGTTTACTCTAGGGCTGTAGTTCACCATTTATTTCAGTTAAGTCCTTCCCCAAATTC
AATATTGAACATGTGGAATTGATTGTTTTACGTGAGTGTATCATTTACTCCCAAGATGTTGGTTTTTGG
CATTTAGTACTGGTAATGGGCCAGGAAAGTGCTCATCTATATTTGTTGTTATTCACTGATTGCATCTTGC
CCTTGCACCCACTGAGACGATGGGAAAGTAGCAACAATACTAGGTGATTTCTTTGATTTAAACCCAATTA
AAAGAATTAGAGAGTTGTCTGATACAAGGCCAAAGAACTAAGAACAGAAACAAAAGCAAAACAACAAACA
GCAGCACAACTCCAGTGAGATAAATTTTTAAAAACATTGGGAATATTTAAAAAATAAAAACACTCCAATG
AACCACCCAGGTTTTATTAAAGAGTAGAGAACTCAAACAGCAGAAGGCAGAGCTGGTGGAGGAACTCAG
CAACTGCTCAGAAATGAAACAACCTAGGAAGGAGGTGCGAGTGACCTGAAACTCCTTTTAAAAACAGAAA
GGACAAAAAGAGGTATGGGCTGACAAAAGGAAAGTGGTAGATTACTGATGTATTGCATTATGCTTAGAAT
GTCTCAGAATGCGAGAGGCAGTAAACACACCAGAAGAGGATACAATATCCGGACCATGTGCAACTGCAAA
TAAATGTTTTGGGTTAAACCTTGGTTGATTCTAAATTACATGAAGAGCTGATGATAATTGAGGCAGAACTG
ATAGACCTAACAATAGAAAAAATCGATTTAAATTCAGAGAAGAGGTCATTTAAGAAAGTATAATGAAGC
CACTTAATAAAAAGGAAATATTCCTCTAACTAAAGTTTGTAGATTTAGGGCATAATCCTCAAAGACAGGCTA
ATATAATCTATTTTTTGTATTAATAAAGGAACCTTTGGTTTTAAAGTAAGATGTTTCAGCTGCTCTTAGAGT
TTATTTCTCCATATTTGGGCATATAAGAATTTAAGGAAAAATATAGAAATATAAGAAAGATTTTCATGAGA
ATCACAAGCATAGTTTATAGGCAAGATAGCCTTTTCTGTTTGAAGCGAAAAATACTATTTCAACATGTA
AAAACCTAAGTCAGTTTTTCACTGGCATGTCCCACAATCATGCCTGAAATAATGTTGAAGACAGATGTGA
GACATTTCAAGGGCAATAGATTAATACATGAAACCCACTTATGCCTAGCGTTCCATTATTGGAACGCTAA
GCATGTGGGAGTTATTTATATCCTATTGCTCAAGGTCTCTCAAGGTCTGAGTTTCACTCATGCAAAA
ATTCAAAAAATTGCAACCTCGGCGTAAATGGGTTAACAAAAAGTTAATGCTGGACAGTAAATAAACTAC
TAAATTAGACACACCATATTTTTTAAATTATAAGAGATTAAGAAGTATGAGATATTTAAAAAGCCACCCA
CAGAAGTAGTAGGACAGGTAGAGAAGGATAAATTCTAACAATCACTGTATCTCCACCCACCTTGTA

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TGACAAATTAGTTTACTTAGTCAATTCAGGAAATTAAACGTATACATTTTGTGTTAAAACAGAAGACTTT
TTTTAAAAAAGTGTGTTAGTTAAGGTTAATTTTGACCTAGTTAAGAAAAAGCAGTTTAGAGTCTTGAAA
TGGAAATGAGAAATACATAATTACCCTTAAAAATAAGTTGATAGTGAATTTTATCTAGGATTCTTAAGAC
ATTTTAAATATTTAATGAAAATGAACTACACAATTATTAATAAATAGTTGCCTGGGTTTAGAAAAATGAT
CCCTTAATAAGACATATACAACAGCCTGAATTTTTATTTCCAAATACTATAGCAACAAAATACCGGCAAG
AAAAATGCACAGAAACATTGGATAGTCTCTTCTTACTAATCTTTTACAGATATTTATATATTCTGAATTC
TAACTTTTAATTTATTTTATGTATTATAAATGTCATCTAGTATGCAGCTTGACTTTGCTTTATGGTATCA
TCTGTTTTCACAGAAAATTTAAGTTGTGGAATTTATCGTATTTTTTCTTTATAGTTTGTGCTTTAAGACC
TGTCTAATAAATCTTTCCTCCCTGGACGCTATAAAGTTATTTGTCTATATTCTGTTAAAAGGAATAAAA
CTTTGCTTTTTTTTCACATTTTGTACTTATTTACCTGAAAGAGAATTTTGTATTATGTGAGGTAGGA
ATATAACTTAATTTTTTCCATTGAATAACCAAATGTCCCAGAGCAATTAAGCAATACATTCTTTCCT
GTTGATCTGTGAAGCTACCTCCATTAGGCATGAAGTTGTCTGTTGAAGAGAATCTGATTCTGAGCTCTC
TTCATATTTCTTTATTTGTCTATGTCTACACTAAAAGCAATTTAATTTCTGTGTCTTTATAATTACTTT
GACTTTATAATCCTTGAAAGGGACTTTGTTCTTCTTCAAAATGTTTTGGCTATTTATGGCTACTTTTGC
TTTCAAATGAGTTTTTAAATCAAACCTTAAATGAGATTGCATTAACTTATAAATTAATCTGAGGAGGATT
GACATCTTCATGATATTTAGTCTTCTACCCATTAACATTATATAACTCTCCATTTATTTTAGGTCTTTT
TGAATGACTTCTAATAAAGTTTTTCAATTTTCTCCAAAATATCTTACATATTAATAATTTACTCATAGCTG
TCTCATCTTACTGATATTTTAAAGACATATCTTTTTTAAAAATTATATTATTAATTTGTTTCAGGTATGTC
TTTTTTTTTTGAAGTTTACAAATTTGGGATTATACTGCCTCTTCATTCAACATTTTCCCATGCTGTTGGG
GATCCTTCAAGTCAAAATTTATTAGAGGAGCTGCATTAATATTCCAGCATGGACATACTATAATTTATTTA
ATTATTTCCCGAATTGTATGTTTTTGTCTTCAACTTCACAGTTTTCAACATGACTGGGAACAGCTTTTCT
TGCTAAATCCTTGACGCCACAGTAATTATCTCACTGGGCCAAAAGATAGGTACTTTTTTCATGACTTTTCG
CCATATATTGTCAAAATGGAACCAATGGTGATTTGTTTCAGAAATCATGGTACATCATATAAAAAGATTAC
TCTGCAAGCATCACAACTGTGATATATAGAAATGTGTTTATTGACATGAAATAGATCATGAAGAAAGTG
ATTACAAATGGTATTTAAGCATTTTAAAGTTATATAGGCTTATACTGAGCAATAACAAAGAGGGTGAATAA
ATGAATGAATATGTGATTCTGGAAGGGTATGTAACAAAAGGTTAACAATGGTTAGCCCTGGGTAAGGGGA
TTATGTATGACTTTTTATTTCTTCTTTTTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT
GTTTTATGAATAAAATAAAAAACTTTGATATTCTTATATAGGTTTAGTAGGATAACATTTCTCCTTCATTT
CTTTCATTTTTTAGAAATCTTCTTTCACGGAAATCTTTTTTTTTTAAATGTTTATTTCTGTCTTTGAGGAGT
GAGATTGACTGGCTATCTTTTAATACCTGTGTGTATTATCATTATTGTATCTTGCTGATAAATTTACAA
CAGTTAATTATTTTATTCCCATTTTCATACTTAGCTCTATTTTAGGCAAGTTCACAAATATCATTGAATG
AGTTCATTCAATGTCATCATGATGATATTGAAATGTCAATAGCAGATGACTTGTCTGAGGAGTGAATA
TGCTGTTTGGTTACATTTGTGTTTTTGGTGATGGAAGGCAGCCACTGAGGCAAACAGCAAGAATACAGC
TAAGCCTCTAAGTGCATACTCTTCTCACTCGTTGCTTAAACTGAAGCGTGGATAATTGGTGTGCATTCC
CTAAAAAGTTATGTCATGATGCAGTAGAGAAATAAGTTAACTTTCTATCCCTGTATCAAAGTTTCTTTT
GAAGGTAAGTGCAGCAGCGCCAAATAAGGAGCAGAGTTCTGTGAATCATGAAATCTTCTAAACAATTG
AGAAAAAAAACCTGTTCTGAAACAAAACCTTGTGCCCTATCCTTTTATTTGAATGTGTTTTCTTAAGGC
CACAAGTGGCAGAGATTTGATGATTTTATGTTTAAAGCAATTTTTTTTTTTTTTTCATAGCAAGGAGTCCC
ACTGCCATCAGGTTTTGTTTTTGGAGAGATTCTGTAAGTACATAGGGTAAGTTACTCTGATGGCTTGCT
CCACATTCATAAGTACATACTGTTCTGAAAAATCTCAAAGTTGAAATATTTTTATTTGGGCAACTTC
TGCAATCAAGGTAATTCATCTATCTTTGGAGAATAAAATGGAAAAGGGCAACCCAATCTCTGTGACCTT
AACTTCCACTGAAACTTAGAGACGGTTAGCTTAGCTGGTGAGAGCGTGCTGCTAATAACACCAAGGTCG
TGGTTTCTATCCCATTACAGGGCAGTCAAGCTCAAGGGAAAAACCTGTTCTTTGGCACAGCTTCCATGG
CCTGCTAGCCGTTTACAGCGAGGGCAAAGAGTAGAGATGTTTTAGTGAAGTACAGGCAAGTGGGGAGT
CTCCACCTTGAATCTGGTGTGGGACCAAGGAAGAGAATCTGCTGAGGCTGGGTAGAGAGACTCTAGAGC
ACCTTAGGCCACAGGACAGCAGAGGATGAGAATAACAGAACTGGCTTCAGAAAGTAGGTGTCAGTCCAAG
GCACTGTATTCAATACATGTAGCAAAGAATGAGCTTCTGACACCAGGAAAGTCTTCAGATGGCAGTGAAT
GCATAAACCGGTGTCAGGATGTCGACTATAAAGGATGGGACACCTTCCATCAGGTGAGAGCTCTGGAGG
TGGAGTCTGTTCTGGAAGAAGCATGGGTAAATGTCATCAAAGGTTCCCTCAGCCACCACTGGGTTCAGG
GCTGAGGTGCACCTAGGAAGGCTTGGGCAGAAGCATGACCCCTGGAACCTGGCCAACTGAGCCATCAGAG
AGTGGTGCAGGTGAGGAGTGGTAGATGTGTAGTGAACCACTCAGCTGTCTGCCCAGGCCCTGGGTGTGGA
AGTAGAGTCTTCTGTGTCTTTGGGCAGACTGAATTATAAGCTTCACCAGATCGCCAAGCTAGGAATGTTG
ACATACCTGGCTTGGGGTCAAGGAGGGACTGAACTGTAGGTGGGGGGCCCCAACAAATCTAATCATAAGA
ATCTATGAGCGTGGAGACAGAAGGACCAAGAAGGGATGCTGTAACCAATTATCATTATTGAAAACTAG
GCAGAGATTACATTCAATTGGCAGTACCACCCTTTTTATCTCTGACATAGTTCCAGAAGGATATACTATG
TATCTAGTGTGACACTGTCTGATAGAATTGTCTGAAATGATGGAAGTGTCTGTGGCTACCCATTTTGTG
AGCCACTAGCCACAGGTGGCTATTGAGCACTTGATATGTTGTTGGTGTGACTGAGGAACTAAATTTTTAA
TTCAATTTAAATTAATTTAATTTAAATTTAAGTAGCAACATGTGGCTGGTGGTTACTGGATTGAACCGA
ACAGATCTAGATACTAGAGTAAGTGGTAGCAGCAAAATCCTATATTGGAACAATGTAAATTAACAATTATA
AATATATGAGCAGGACAAAGCCCAATGGGCCTGTACTCTTAGTTTTGCTATATATTCAACCATAACTAG
CACTCATTTTTTTAAACTTATAAAATGCAAACTCATTTGGTTGTGATGATGAATGCTCAGGTAATTGTTGA
GTTTCAACACAGTGACAGCCAGGAACCTATTTTGGAGACTTGGATTGTGCCACAGTTTGTCCCTCTATAA
AATGATGATGAAAATTTTATCAGTATCTGTCTCAAGCTGTAGTTAATGGGCCAATTTCTAAATATTCTCTG
TCAAATTTGTATAGCCATTGTTTTCAAAGTAGTTTTGAAAGTAGGCCATTGGTAAAGCAATCTATTAAAGT
GCAGGAAGAAAGTAATAGAATCTCTTACTTTTTTAAAGTCTCATTATGAAATTTATATTTAGTTTTGTATG
CCTTCGATGTACATAATATATTAATACACAAATATATTAATGCAGCGGTCCCCAACTTTTTCTCACCAG
GGACTGGTTTTCTGGACGACAGTATTTCCATGGATTGCAGCGGGGATGGTTTCAGGATGAAACTGACCCA
CCTCAGATCATCAGGCATTATTAGGTTCTCATAAGGAGCACACAGCCTTGAGCAGGTGCAGTTCACATAT
AGGGTTTTGCGCACCTATGAGAATCTAATGCTGCCGCTGATCTGACAGGAAATGGGGCTCAGGCAGTAATG
CTCGCTCACTGCTCACCTCCTGCTGTGTGGCCAGTTTCTAACAGGCCATGAAGTGGTACCAGTCTGTGG
CCTGGGGGCTGGGGAGTCTGCATTAATGTAATTAAATATGTACATTTCTTGAGAGTGTGTGTTCAAATA

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[illegible]

AGATCTGCTACTTTGTTTGGTTTTAATGGGGAGTTGCTAATGCTGAAATATAGTCAGAGAAAAGGAACGT
GGAATTTCTATAGAGGAGAGCCTGGCTCTGGGGTAATACTACTGTCTTGGTGGAATGTTGTCTTTTCTG
AAGACATTGGTTCAATTCAATACATGAAACATTCATCGATTATTATTTAGAAAAGCTAATCTACTGACAA
GACACAGAGTTAAGTAGTAAAATACAGAGACCTAGACACAGTTCTTATTAAGAAATTTTTTAATTTAGG
TGGCATATTTAGAGAGAAATTCTCTGCTTGGGGCAATAGGTACCTCCTTTGGAATAAGCATGGTGAGAA
AGAATTGCTTCTGGCAGATTAGTGAGAAGAGTGAGATATTTCTTTTCGATGACCTCTCTATTAATAATTTG
AGTGGTAAAACCTTTGTGATGATTGAGGCTCTTCATAATTCTTAATTTTATCATCCTCTAATACCAGGACT
TGCCCAGATCAATATTTTAGGAAACAGTCATGCTTGCTAAACCCAGGGATTTCTATTAACCACTAGATAA
GACATAAGTTTGTGTCATGCAACAAGTATTTATTGAGTCCATAATTTGCCCAGCACTGGGCTTTGGTACTCT
GGGCTTTGATACTCTAGGTTGTGTGTCAGAGATGTCTAATATATTTAAGGTGACAGAGTTCACAAATGAGAC
TTTATGAAAATGAATATCCCTTTTTAAGTCTCGAGAAATATGATGTGCACCCGCTTGAGGCTTTATTA
TCTCCAGCGAGCATGAACCTGTTTGTGACCCAATTGTAGAATTGTTGTATGATGACTATCCCACTGGCAG
GCACTTCTTGTCCAAGAGAATGTAATTGGATGTTGGTGACTCAAGCAATCCTGGGAAGACTCCTCCATGA
CCAAATTAAAGACAACAGGGGCTTGGTTGTACTCAGCTCTACACCAATCAGCATGAGACAAAGAAGAGA
TCCATGGCAAAGTGGGGAGACTACTGTTTATTTTACAAGCTAGAGAAGGAAAAGTGCAGTTCCTGAGTTG
CAAACTGCTAAGAAATGGGAGAACACAGAACTTTACAGGCTGAACCTTGGTGTCTTAGTTATTCTCTCT
GGCTACAGAATGCCAACAGTAGGAGATTGATCAGTATGAGATATTACAGGGAAATGAAGCCAGGCAAGAAA
AATATGTATTCCCTTTCTCTCAGCCCATAAATTTTGTATTATAAATAAATCAGACTCTTATAGAACAGCTT
GCCACGGCTGTCTCTAGAAATGTTTTTATTAGCAGAATTTTTATTAAAAATAAATACACAGTAGTTTTAA
GAGTGAACATTATAGTTTTAGGTCATAAGGGGTGTCATGGAGAACACATGTGGATGCTACTTGCCAGTTA
CTTGATCTAGGCCCTTACTCTTGGTTTTCTGTTGCTCGGATAAGTTAGCATGATTTGACATGCAGTTAAA
GGTGTGGTAACCTGTGATTGATTTCCCATTTCTGATGCTCCCTGCCTGGACTTCTCGGAAAATTTCAAAA
CAATTCATTCTTCTATGAGGGCTGCCTCCTTGGTTGCTTCGGCTAAACAGTGTGAGCAACAAGTTGGGA
AAGGAACGTTGCAGTAACCTTTTAAAAATTAAGTTAGAAACAAATGTCATCAAAGTAAATGATAATTTGCC
AATATGATTGAGCAAAAAGATGAAGATGCACGCTCCCTACGTATTTGCTTTGCAGAAGAATTAATTTGAA
AAATAATAACATATTTTAAATGAATTGTAAATATAAACACATGCTAATTGCAGAGGGGAATCCCTGTGA
TTATTCAGCAGTTTGTGTTTGTCAAGTGCTTTTCAGTCAGTCCATTCCAGCTCAGCAGGGCAGAGGCTTG
GGCTGTTGTAACTTGTGGGCAGATACCCAGTGATGGGGCAGACATGAGCAGGTAGGGCTGACAGCATGT
GAATTGAGTTTCTTCAGTCATGCTGTTGTCAGCTGCTCCCTCCCTCATTGCTGAGTTTGCCACAGCAGG
TAGGAACCTAATCTGGAGCCTGGGATGAAGGAGAACCACATTGGGCTTGAGGAACAAGATCTGCCACC
CTGGTAGGCCCTGGTTAAATCTCATGCAAGTGTAGCAATGAGAGAGGGTATGATTGAGTTCTAATTTAGG
AGGAAAGGGGATAATGTGCCCTTTGCACCCCCAGGAGAAATCATTGCTCATCTGTGCCTAAGTAGACTTA
TCAAGGGCAGTTGGTTCACAATGGTGTATCACCCCAAAGGACTATAGTGTATGAGAACTTGCCAGTGTA
TTTGAATTTGGTGCTGGCAGATGACATCATGAGGTATTATGGTTACCCATAAATATGCTAGTTTATTGA
GAAGGTGGTAGACATGCTAGTGGATGAGAGGGAAGGACAGAAGCAGTTAGTAAACAGCATCTGCAACAAT
TCAGTTAACTGGTGGTGTGTCAGTAGCATGGTGGAAAAGTTGGCAATTAATAACTTCTAAGAAAAGTGA
ACTAATGAACCAATCCTGCGTGTGCTATGTGTATAACCTCCTTCTCACTATTAACAGATTTGTTCCAAAC
TTATATAAGACAATGAAAATAAAGCTTGGCAATATAGGGAAGGGATGGAGGGATAAAGCTGTAAATCAGG
TCACAGGCAAAATTAAGATATAACCACTGGATCAAGGGATTTAATGCAGAAAGACTGATCCTAACTTATTC
TTTTATTAGCAATAAGATTTGTTACTTACATTGATTATTTAAATGAGTTGCATTATTAGAAAGGACTA
TTTTGAAGACAACATAATAAAATGTCAGTAACTGATAGTAGCCAAGATATTTTAAATATATCAAAGTTG
TGTCATTAATATTAATGTGTCCCTTAATATGAAGTCTGCCAGGCTTATTTATGTATTCAACAGACACA
TACCTGTTGAAGTGTAAACAGATATTCTGGACACAAGCAATGGTAAACAAGACAGATGCAGTCCCTGCTTT
CATGCAATTTGCAATTGAATGGTCTTTGACATTTTATTGTGATTGTTTTAGTTATTTAATTGGAGAAGTT
TTTAATTTAAATTTGTGTTATATTGAGTGTAAAGGAACAAAATGTAATGTGCATTTCTGAGACTCAGTA
ACACTTCTGGTTTTTCTTTTTTCAATTAAGAAAATTTAGTGCCCAAGATAAGCTAGAATTTTTGGAAT
CAAGTAATTGATGACCTGGGAGCCAATTTTATTACAATAGTGTTTTTAGTGGTCTTAGAACTTTTCAGAG
GTGGTAGCTCTGAAAATAACACTGTAATAAATTCACACATACATCTATCATCCAATAAATGTTAATTGAG
GCCCCACTACAGCATTGTGTTAGATTCTGAGGTTACAAATTGTTGACCCCATGTGCAACATGTTGACCCCA
TCAATGTAATCAGTTTGACATTACACAGTCATTTAAACATTAAAGTGTGAGCGGATATTTTAGTTGTAAT
TTTGATAAGTGCTCTGAAGGAGAAAACAGTGGGTGTTGTGAAAAGCAGTATTTGGTTGATTGATTATTAT
AGAGGATCTGAGAAAACCTTACTTGAGGAAGGAACATTTGGCTGAACTCAAAGAGATGAGTAGGAGTTAAG
TAAGCAAGGAAGAAAAGAAGACACATGAAGGAGGAAGAATGTTCTAGAAACACACACACACAGGTATATG
TATATGTACATGTATATGTATATGCATATGTCTTCCTTAGAAACATATAAACAGCTGCAACATGATTGAA
CTTATTTACCCAATTACCAAAGCTTATTTTGACCATGAAGGTGGAGATAAAGGCTTTTTTAAGCAGCAAG
GATAGAATCTTTGTAGTTTTTATTTATAGGCTGGTTCTTCTGACAACTTTAATTTTTTCATCTTTACCAAC
TTCATGGTCTTCAGTACATACAATGCAATCATTATTATAAAATTATATTTTACTCAAACCTAAGGTAG
GATGATTCAGCTGTGCGCCATCAACATAGCAGCATGAATGGTAGAGACTAGTCATTCCAAACAGTGAAGG
GGCAACGTAAACATAATTTAATATTATATGAAAGTACTTCTTGCCCTTGACTGCTTTTTTTTTTTTTTG
AAGAAAGCAAACCTTTAAAAATTTATTTTAGATTTACAGAATTATTGCAAGGATAGTAAGAGAGTTCTCAT
ATATGCCCTACCCAGTTTCTCTATTATCGACATCTTACATTATATGGTACATCTATCATAACTAATGAA
CCAATATTGTTTCATTATTAGTAACATAAATCTATACTTTATTGAGATTTTCTAAGTTTTCTCTAATGTT
CTTTTTCTGTCCAGGACCCCATCAGGATATGGTATGTATAGTTGTGATGTCTTCCAGGCTCGCCATGG
TTGTGACAGTTTCTGAGACTTTCAATGTTTTTGTATACCCAGGTAGTTTAGGCATTTTGTAGAATGCCTC
CCAGTCTGAATTTGTCTGATGTTTTCTCATGGTTTGACTGGCTTTAATGTGTTTTGGGGAGGAAGACCA
CAGAGGTTAAGTGTGATTGTGTCATCAGATCGTATCAAGGTACATGCCATCAATATGACTTATCACTGTTG
ATATTAACCTTGATCATCTGGCTTGAGATAGTATTTGTGAGGTTCTGTATTATACAGTTACTCTTCTCC
CTGTCCATACAGTACTTTTTGGAAGAAGCCATTTTGTGACAGCTCATTTTTTTTTTAAATTTAATTTAAG
TTCTGGGGTACATGTGACAGATGTGCATGTTTGTACATAGTTAAACGTGTGCCATGGTGGTTTGTGCA
CCCGTCAGCTCATCCTAGGCATTAAAGCCAACATGCATTAGTTGTTTTTCTAATGCTCTCCCTCCCC
CAACCCCAATCTGACAGGTCCCAGTGTGTGTTGCCCTCCCTGTGTCCATGTGTTCTCATTGTTTCAGC

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TCCCACCTTCTAAGTGAGAACATGTGGTGTGTTGGGTCTCTGTTCCCTGCATTAGTTTGCTGAGGATAATGGC
TTCCAGCTCCATCCATGTCTCTGCAAAGGATTTGATATCCTTCCCTTTTTATGGCTGCATAGTATTCCATG
GGGTTTATGTACCACATTTTCTTTATCCAGTCTATCACTGATAGGCATTTGGTTTGATTCCATGCCTTTA
CTATTGTGAATAGTGCTGCAGTGAACATATGCATACATGTATCTTTGTAATAGAGTGATTTATATTTTAC
TGGGTATATACCCAGTAATGGGATTGCCAGGTTGAATGGTATTTCTAGTTCTAGATCTTTGAGGAATTGC
TACACCATCTTCCTCAATGGTTGAACTAATTAATTTACATTCCGACCAACAGTGTAAGTGTTCCTATT
TCTTTGCAACCTCGCCAGCATCTGTTGTTTCTTGGCTTTTTAATGATCACCATTCTGACTGGTGTGAGAT
GGTATCTCATTTGTGGTTTTGATTTGCATTTCTCTAATGATCAGTGATGTTGAGCTTTTTTCATATGTTCT
TTGGCCTCATGAATGTCTTCTTTTGAAAAGTGTCTGTTTCATGTCTCTTCCAACTTTTTAATAGGGTGT
TTGTCTTTTCTTGCAAATTTGTCTAAGTTCCTTGTAGATTCTGGATATTAAACCTTTGTCAGATGTATAG
ATTGCAAAAAATTTCCCCAGTCTGTAGGTTGCCTGTTTTCTCTGATGATTGTTTCTTTTGCTGTACAGA
AGATCTTTAGTTTAAATTAGATCCCATTGTCAATTTTGGCTTTTTTTTGCAATTGCTTTTGGCAGTTTGT
TCATGAAATCTTTGCCTGTGCCTATATATTTATTGCATAGATTTTCTTCTAGGGGACTTCAAACATGCT
ACAAAACCTCAATAACCAAAACAGCATGGTACTGGTACAAATACAGACACATAGACCAATGGAACAGAAT
AGAGAACTCAGAAATAAGACCACACATCTACAACGATTTGACCTTCGAGAAACATGACCAAAACAAGCAA
TGGGGAAAGGATTGCCTATTTAATAAATGGTGTGGGAGAACTGGCTAGCCACATACAGAAAATTGAAAC
TGGACCCCTTCCTTACACCTTATACAAAAATTAATTCAAGATGGATTAAAGACTTAAGTGGAGCTCATAT
TTAAGGAGTGAGAAGATATGCTCTACCTCTTTAAGGGTGGAGTAGCTCTATAAATTATTTGGAAGTGTCT
ATTCTCCTCCATTAATTTATTTAGTCAACAATTAGTATCAGCCATCTAGAACCCATGAATATTTATGCTT
TGGGTACAGTCCAATACTATTTTATTTTGTAGCTCATCTTGTTCAGCTTTGGCCATTTGGAGATTTTTC
AGTTGGCTCCTGTATCTCTTTGGCTTCTTACATATCATTTGTAGGGTTTTTTAAAAGCCTTTTCTTACTTT
CTGTCACTACAAGATAGTTTCACTTATCTTCTGTATTTTTTGCCCCAGTTCTATGATCAGCCACTTCTC
CAAGGAGCAATAATTTCCCTTCAATGAAAACCAAGATATGGGCTGTTGGTGTACTTGTGTTATTGTGTGT
TGTTACTTCTAGATCCTCTAAGCTGATAGTGCAAAGAGATATATGTGTGTGTACCAACCTATATATCTAC
ACACATATAAAAAATATTTCTATTTGTAACCATCTGTATCTATCTTAGGCTAAACCTGAGTACCTACTGAT
GTCTCCAATTCTAACCTGCAACAGCATGGAACATTCTAGCCTTCTCCTCTTACTTATCTGTCACTTCCTA
TACCAATAGTGAGAAACCTGGCTCCTACCATCTGCTATTTATTTACTTAATTATTTAATTCCACTATACT
TCTATGGAAGTTTTCAGAAATTGTTAATCTGTACTCATGTACGAAACAACCTTTATCAACTAGAGTATAGTGT
TTATATACAGTTCCCTTTGCCCTTTATTCTAACAGATTCCACTTACTCATTTTCCGAGTCACTTAGGTTAGC
GCCTTATTTTCCCTAAGTCCATTAGTGAGTTTGCTTCATGTATTTGTCATACATTTAAATTCTTTTGTAAT
ATTGTGCATTCATCCCAGTTTCCCTGACATCCTAAATTAACCTTTTAAAGTTTGGATACATTGTGGTCT
ATTCTTTGTCTGTAAAGCTTTATGGATTTTGACAAGTATTTAATGTATTGTATCACCATTATAGTAATA
TAGTTCCATGGAATAGAATAGTTTCTATCGCTGTAGCATAGAATAGTTTCTCTACTCTATAAAATATCC
TGTGTTTCTCTAATTCACCCCTCCTTCCCACCTTGAACCTGACAACCCCTGGTCTGTTTAATATCTT
TCTTTTGTCTCTTCTAGAATATCATATAATTGAAATCATACAATATGTAGCTTTTTTCACTGGCTACTT
TCACTTAGCAATATTCATGTAAGTTTCATCTATATATTTTTCATGGTCTGATAGCTCATTTCTTTTAAATC
ACTGAATAACTTTTATTTATCCACTCACTGGTGAAGAATCTCTTGATTGCTTCTAAATTCATGGCAAT
TATGAATGAACTGCTCTAAACATTTTGTGTCAGGTTTTTGTGTGCATGTGTATTTCAAATTAGTTGGG
TAAATATCTAGGAATCAATTTCTGCATCATTTGTGGTAATAATGTGTTTAGCTTCATAAGAAATTGCCAA
CCTATCTTCCAAAATAGCTGTACCATTTTGCAATCCCACCAGCAATGAATGAGAGTTCTTGATGCTCGAC
ATCCTTGTGAGCATTTGATTTTGTGAGTGTGTTTGGATTTTAACTATTGTAATAGATGTGTAGTAGTGT
TGATTGTTTTAATTTGCAATTTCTTTTCTTTTTTGAGATGGAGTCTCGCTCTGTGCGCCAGGCTGGAGT
GCAGTGGCAGCATCTTCGCTCATTTGCAACCTCTGCCTCCTGGGTTCAAGCAATCTCTGCCTCAAGCTCC
CAAGTACCTGGGATTACAGGCGCTGCCACCATACCCGGCTAATTGTTGTATTTTTTAGTAGAGATGGGGT
TTCACCATATTGGCCAGGCTGGTCTTGAACCTCTGACCTTGTGATCCACCCGCCCTGGCCTCCCAAAGTG
CTGGGATTACAGACATAAGCCACGGCGTCCGGCCTGCAATTTCTTAATGACAAAAAATATTGAGGATATT
TTCACATACTTTTTTGGCAACTGTATTTTTTTTAAATTAATTTTTATTTTTATTTTTGTAACTTTT
ATTTTAGATTTGGGGTACATATGTACATTTGTTAATACAGGCAAATTTGTGTACAGGGGTTTGGTGTAC
AGATCATCTCGTCACCCAGGTACTAAGCATAGTTCTTGATAGTTCTTTTTCTGATCCTCTCCCCACTCC
CACTCTGTTCCCTCACGTAGGCCCCAGTGTCTCTTGTTCCTCTTTTATGCCCAATTGGTTCTCATTATTT
ATCTCTCACTTAAAAGTGAGAACATGCAGTATTTGGTTTTTCCACTCCTGCATTAGTTTGCTAAGGATAAT
GTCTTCCAGCTCCATCCTTGTTCCTGTACAGGACATGCTCTCGTGTTTTTTTTCTTTCTTTTATTTTAA
TGGCTGAATAGTATTCACGGTGTCTATGTACTACATTGTTTTTTTTTAAACCTGCATACCATTGATGG
GCATTTAGGTTGATTCATGTTTTTGCTATTGTGAATGGTGTGCAATGAACCTACATGTGCATGTGTCT
TTATGGTAGAACAATTTATATTCCACTGGGCATATACCCAGGAATGGGATTGCTGGGTTGAATGGTAATT
CTCCTTTTAGGTCTTTGAGGGATTTCCACACTGCTTTCCACAATGGGTGAACATAATTTCACTCCCACCA
GCAGTGTATAAGTCTTCCCTTTTCTCCATAACCTCCCCAGCATCTGTTTTTTTTTGTGTTGTTGTTGTT
TTTTTAGTATTTAATAATAGCCATTCTGACTGGTGTGAGATGATATCTCATCATGGCTTTAATTTACATT
TCTCTAATGATTAGTGATATGTAGCATTTTTTTCATTTGTTGCCAACTGTATGTATTTTTCAATGAGGTGT
ACATCAGATCTTTTGCCATTTTAAAAGTGGGGTTTTGGGCTGGGCGCAGTGGCTCACGCCTGTAATCCC
AGCACTTTGGGAAGCTGAGGCAGGCAGATCACCTGAGGTGAGGAGTTCGAGACCATTCTGGCCAACATGG
TGAAACCTGTCTCTACTAAAAATACAAAAATAGTCGGACATGGTGTGCGGCACCTGTAATCCCAGCTA
CTTGGGAGGCTGAGGCAGGAGAATCACTGGAACCCAGGAGGTGGAGGTTGCAGTCAGCTGAGACTGAACC
ATTGCACTCCAGTCTGGGCAACAAGAATGAACTCCATCTCAAAATACATACATACATACATACATACAT
ACATAAAATTTGGGTTTTTGTCTTTCTTTTGTGAGTTTGGAGGTTTTTTTGTATATTTTGATTACAAGT
CTTTTATCAGCCATGTGTTTACAAATAATTTCTCCAGTTTGTGGCTTATCTTTTCACTCTCTTAATTG
TTTTTTTCAAAGTAGAAATTTAAATTTTAAATGAAGCCCAATTTATTAATTTTTTCTTCCATATTGTGCT
ATTGGTGTGTATATAAAACCTTACTACCAATTTCAATATCATATAGAATTTTTTCTGTTTTCTTCAAGA
AGTAGTTTTATAATTTTGCATTATATGTTTAGATCAATGATTCACCTTAAGTTTTGTTAAGGTGTAAGG
TTTGTGTATAAGTTTTTCTTTTCCACATCAATGTCCAGTTGCTTCAGCAACATTTCTTTTTATATATA
TCTTAAGGGTAATCAGCGCAATATTTCTGAAAAGATGACCTTTTTCTCATTTAATTGGCTCTTCTTGT

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CAAAGATCAGTTGACCTTATTTGTGTGGATCTATTTCTGGACTTCTTACTCTGTTTCACTAGTCCATCTG
TTTATACTTTAACCAGTACCATACTGCCTTTATTACTGTAGCCTTTATGGTAAGTCTTGAAATGAAATAG
TGCAAGTGCTCCACCTTCTTCAGAATTTTGTCTTCTTCAGTATTAAAGGCTATTCTAGGTCTTTTGCCC
TTCTTTAAACATGTTGGAATCAATTGTCAATATCTACAAAATAGATTATTGGGATTTGGATTTAGATTAC
TCTGAATCTGTTAATTAAGTTGGGAAGAATTGACATTTTATCAATATTGAATAATATGAACATGTAATAA
TATTGAACCTTCAATCTCTATTATCTCTTCATCATTTTTAAGATCTTCTTTCATTTTTTCATTGTTTTATAG
ATTTTTACATATAGGCCTTGTACATACTTTGTAAATTTATATCTTAGTATTGAATGTACTATTATAAATG
GTATTTTCTAAACTTTGAATTCCTGTTATTTCATGATGATATGTAGGAAAGAAATTGACTTTTGTATATTG
ACATTAGATCCTTTAACCCTGGCATCATTACTTATTAGTTCCAGGGGAGATTTTGTGTTGTTGTTGATT
CATTGGAATTTTCTGCATAGATAATCATGCCATCTGTGAATAAAGATGTTTTATTCTTCCCTCCCAATC
TATATATCTTTTATTTCTTTTTTGCCTTATTGCACCTGCTGGTATTTCTAGCATAATGTATAATAGGAG
GAATGAGATAAGATATCTTAGAATTATCCTCATCTTCAGGGGAAAGTGGTAGTTTTTGTCAATTAAGAA
TAATGTTAGCTATTGTTTTTTTTAAATTTCTATATGAAATTGAGGAAATTTCTGTCTATTCTGAATTTGC
TGAGTTTTTAATCATAAATAGCTGTTGAATTTGTCAAATAGTTTTCTGTGTCAATTAATATGATCATA
TGACTTTTCCCGTTTTCACTGTTAATGTGGCAGATTATATTGATTTATTTTCAAATGTTGAATTTGCCAT
CAGACATGGAATAAATCCCATTTGTTTCATGATGTATAATTTATTTTATGCATCGTTTGTCTGTCTTGCT
AACATTTTGTGAGATTTTGTGCCAGTGCTCAGGAGAGATATTGGTCTCTAGTTTTACTTTCTTATAATA
TCTTTATCTGATTTGGGTATTAGGATAAATTCTAGACTCAGAATGAGTTAGGATGTGTTTTCTCTGCCTGT
TTACTAACACAGATTGTAGAGAATTGGCACAATTTCTTTCTGAAGATTTGTTAGAAGTAATCTTGCCAC
CACCTGAGCCAGATGATTTCTTTAGAAGGTAATTAGTTATTGAATCAATATATTTAATATATATAGAGAT
ATTTAGGCTATTTATTTCTCCATGTGTGAGTTTTGTTAGTTTGTGTATTTCAAGGAATTGGTCCATTTCA
TCCAAATTATCAAATTCGTGAGCATAGAGTTGTTTATAATATTCCTTTTATTATCCTTTTAAATCTCCAAGA
GACCAGTCGTGGTGACTTCTCTTTTCAATTTATGATATTGGTAATTTATGTTTTCTGTCTCTCTTTTTTTTT
TGCCAGAGTCTAACTCTGCCACCCAGGCTGGAGTGCAATGGTGTGATCTCTGCTCACTGCAACCTCTGCC
TCTTGGGTTCAAGTGATTCTCATGTGTGAGCCTCCCGAGTAGCTGGTATTACAGGCATGCTCCAATACAC
TTGGCTAATTTTTTTTTTTTGTATTTTTAGTAGAGATGAAGTTTTACCATGCTGGCCAGGTTGGTCTTGAA
CTCCTGGCCTCAAGTGCTCTGCCTGCCTCGGCCTCCCAAAGTGCTAGGATTACAGGCGTGAGCCACCGTG
CCCGGCTTCTTTTTCTTAATTAGCCTGAATAGAAGTTTATCAATTTTATTGCTCTTTTAAATAAACCAGT
TTTTGTTTCACTGAGTTTCTTTATCATGTTTCTGTTTCAATTTTATTGGCATCTGCTCTAATTTTCAAT
GCTCCTTGACTTATGATGGGGTTGTGTCCCAGTACATCCACTGTAATTTGAAAATATCATAAGTCTTTTG
ACTTATGTAATGCATCTAACCTACCAACATTATCGCTTAGCCTAACCTCCCTTAAATGTGCTCAGAACA
CATAATTAGCCTACAGTTGAGCAAAATGATCTGGCAACAAAACACACTATAGAGTATTGATGGTTTACC
CCGATGATCAGATGCTGACTGAGAGCTGCGGCTTGCTGCTGCTGCCCAGCATTAAAGTGAGAGTATTGTT
CCATATATTGCTAGCACAGAAGATCTAAATTGAAAATCAAATAACAGTTTCTACTGAATGCATGCATAT
TACTTTTGCACCATCTGAAGTCAAAAAAATAATAAATCAAACCATCTTAAGTTGGGAACGTCTATAT
TATTCTTCTCTCTGCTTGAAGCTTATCTAGTTTTTTTCTTCTCTAGTTTCTTCTAGGTGGTGGCT
TAGGTTGGTTATTGATATTATATATTTTTCTTATCTAATATATTTACTTAAATGCTATGAATTTTTCTCTA
AGCACTGCTTTTCTGCTATCCCAAAATTTGATGTTCTATTTTTATCTTCATTTAGCTCAAAATAGTTT
ACCATTTATTTTGAAGCTTTTCTTTGACTCATACGTTCTTTTAAAGTGTGTTGTTCAATCTCTAAATAT
TTCGATATTTTCCAGCTATCTTTCTGTTGATTTCTAATTTATTTCCAATTTGGTGTGAGAGCCTACTTTG
TACACTTTCTGTTCTTTTAAATTTGTTAAGGGTGTGTTGTGACCCAGAATGTGGTCTATCTTGGTGCCTA
TTCCATCAGAACTTGAGAAGAATGTGTATTAAGTTGTGGTTTGTGAGGATTTCTATAAATATTAATTAG
ACCATGTTGATTATCATACCGTTTAGGTCAACTATATCTGTATTAATTTTCTGCCTGCTTGCACTAGCA
ATTACTGACAGCGGAATGGTGAGGTTTCTAAGTATAATAATGGTTTGGGCTTGCTATTTCCCTTTTAG
TTTCAATCATTTTGTCTCATGTGTTTTGATTCACTTTTGTAGGTATACACATATATACACATATTTATG
ATTGTTGTATCATCTTGAACAACCTGACCCCTTTATCATCATCTTTATCCTTGGTACTTTTCTTCTTTGG
TAGTCTGCTTTGCTGAAATTAATATAGCCACTCCAGCTTTATTTTTGTGAATGTTAGCATGGTGTATCT
TTCTCCATTCTTTACTTTTAAATATCAGAGTTATTACATTTAAAGTGGGCATTATTACTAGGATAAAT
ACCAAATAAAGTATTTTGCATGCTGGGCTTAAACCTAGATGACAGGTTAATAGGTGCAGCAAACACCA
TGGCACATGTATACTTATGGAACAAAATGACATTTCTGCACATGTATCCCAGAAATTTAAAGTAAATAA
AAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA
GGCTGAGGAGGAGAAATCAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATA
CTTTCTTAAATTCATCTGACAATTTCCATCTTTTAACTGGTATATTTAAACAATTTATATTTAAAGCA
AGTGTGATATATTTGAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATA
TTTTTGGTCTTTTCGTAGTTTTATTTGAGCAATGTATGTCATACCATTTTATCTTTTCTCTTAGAGTATTA
ACTATACTTCTTTTTTTTTTTTTTGTAGACAGAGTTTTTCTTGTGTTGCCCAGGCGGGAGTGCAATGGTGC
GATCTTGGCTTACCGCAACCTCTGCCTCCTGGGTTCAAGCGATTCTCCTGCCTCAGTCTCCCGAATAGCT
GGAATTACAGGCATGTGCCACCATGCCCGGCTAATTTTGTATTTTTAGTAGAGACGGAGTTTCTCCATGT
TGGTCAAGGCTGGGGTCTTAACTCCTGACCTCAGGTGATCCACCGGCTCTGCCTCCCAAAGTGCTGGGT
TTACAGGAGTGAGCCACCGCACCCGGCTTAACTATACTTCTTTAAAGAATTTTTGTAGTGGTGGCGCTAA
AGTTCACAGTATACATTTTTAAGTATTCTAAATACACCTTCAAATAACACTATTCTTTTACATGAAAT
ATAGGGATATTATAACATAGTATTCTCAATTCCTCCTTACTGTCCCTTGTGACATAGCTGTCATTTATTT
CATTTCACTTACCTATATACTATAATCACCTATACATTGCTGCTATTATGATTTTAAACAGGCAGTTATT
GTTTACGTCAATTAAGAATTTAGAAAGAATTTAGAATCCTGTGTAATAAATTTCTTTTATTTTACCT
TAATTCATGCATTCTCTGATTATCTTCCATGCTTTATGTAGATCCAAGTTTCTGACTTATATCACCTTCC
TCTTGCTTGAAGAACATCTTTTAAATATCTGACAGGCAAGTCAGCTGGTGATGAATTCTCTGAATTTT
TGTCTGATTTTTTTTTTAAATTTTCTTCACTTTTGAAGGATAATTTCCCTGCATCTAGAATTCTAAATTG
GTCATTTTTTCAACATTTTATATATTTTACTTCACTTTCTTTATTAATGTACGGTTTCTGAAGAGAAAT
CTGCTGATTTTCATCCTGTTCTCTATGGTTAGGTGCTTCCCTGCCCTGGCTCTGGCTTTTCAAGATTTT
CTCCCTGTCTTTGGTTTTTCTACAGTTTGAATACAATATGCCTAGGTGTTGTTTGTGTTTTTGTGTA
AGGAGTGGCATGTATTTATCTTCTTGATACTCCCTGAGCTTCCCTGGATCTGTGTTTTGGTGTCTGTCATT

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AATTTTGAAAAGTTCTCAGCCATTACTACCTCAAATATTTCTTCTTCGCCTTTCTTTTTTTTTCTTTCTG
GTATTCCAATTATGCATATGCTTGTTATACCTTTTGCTTTTTTCATTCTTTTGATTCTTTACATTTCAGTT
GGGGACGTTTCTGTTGACTTATCTTTCAGCTCACTGATTATTTCCCTGGCCGTGTTGAATCAATTGATTA
GTCCTCAAAGACATTTTTCATTCTGTTACACCATTTTACATTCTAGCATTGCTTTTGATTCTTTCT
TAAAAATTTCTATCTTTCTGCTTATATTACCCATCTTTTATTGTATGTTGTCTTCTTTTCCATTAGAGCC
CTCAAACCTCTTTTTTTTTTATTATACTTTAAGTTTTAGGGTACATGTGCACATTGTGCAGGTTAGTTACAT
ATGTATACATGTGCCATGCTTGTCGCTGCACCCACTAACTCGTCATCTAGCATTAGGTATATCTCCCAA
TGCTATCCCTCCCCCTCCCCCACCACCAACTCCCCAGAGTGTGATATTCCCCTTCCCTGTGTCCAT
GTGATCTCATTGTTTCAGTTCCCACCTATGAGTGAGAATATGCGGTGTTTGGTTTTTTGTTCTTGCGATAG
TTTACTGAGAATGATGATTTCCAATTTTCATCCATGTCCCTACAAAGGACATGAACTCATCATTTTTTATG
GCTGCATAGTATCCGTGGTGTATATGTGCCACATTTTCTTAATCCAGTCTATCATTGTTGGACATTTGG
GTTGGTCCAAGTCTTTGCTATTGTGAATAATGCCGCAATAAACATACGTGTGCATGTGTCTTTATAGCA
GCATGATTTATAGTCATTTGGGCATATACCCAGTAATGGGATAGCTGGGTCAAATGGTATTTCTAGTTCT
AGATCCCTGAGGAATCGCCACACTGACTTCCACAATGGTTGAACTAGTTTACAGTCCCACCAACAGTGTA
AAAGTCTTCCATTTTCTCCACATCCTCTCCAGCACCTGTTGTTTCTGACTTTTTAATGATTGCCATTCT
AACTGGTGTGAGATGGTATCTCATTGTGGTTTTGATTTGCATTTCTCTGATGGCTAGTGATGATGAGCAT
TTTTTCATGTGTCTGTTGGCTGCATAAATGTCTTCTTTTGAGAAGTGTCTGTTTCATGTCTTTGCCACT
TTTTGATGGGGTTGTTTGTTTTTTTCTTGTAATTTGTTTGGTTTCATTGTAGATTCTGGATATTAGCCC
TTTGTGATGAGTAGGTTGCGAAAAATTTCTCCCATTTTGTAGGTTGCCTGTTCACTCTGATGGTAGTT
TCTTTTGCTGTGCAGAAGCTCTTTAGTTTAATTAGATCCCATTTGTCAATTTTGGCTTTTGTGCCATTG
CTTTTGGTGTGTTTGGACATGAAGTCCCTGCCCATGCCTATGTCTGAATGGTAATGCCTAGGTTTCTTC
TAGGGTTTTATGGTTTTAGGTCTAACGTTTAAATCTTTAATCCATCTTGAATTGATTTTTGTATAAGGT
GTAAGGAAGGGATCCAGTTTTCAGCTTTCTACATATGGCTAGCCAGTTTCCCAGCACCATTTATTAATA
GGGAATCCTTTCCCTGTTGCTTGTTTTTCTCAGGTTTGTCAAAGATCAGATAGTTGTAGGTATGCGGCGT
TATTTCTGAGGGCTCTGTTCTGTTCCATTGATCTATATCTCTGTTTGGTACCAGTACCATGCTGTTTG
GTTACTGTAGCCTTGTAGTATAGTTTGAAGTCAGGTAGTGTGATGCCTCCAGCTTTGTTCTTTTGGCTTA
GGATTGACTTGGCGATGTGGGCTCTTTTTTGGTTCCATATGAACCTTAAAGTAGTTTTTCCAATTCTGT
GAAGAAAGATATTGGTAGCTTGATGGGATGGCATTGAATCTGTAAATTACCTTGGGCAGTATGGCCATT
TTCACGATATTGATTCTTCCATCCCATGAGCATGGAATGTTCTTCCGTTTGTGTTATCCTCTTTATTT
CATTGAGCAGTGGTTTTGTAGTTCTCCTTGAAGAGGTCCTTACATCCCTTGAAGTTGTATTCCTAGGTA
TTTTATTCTCTTTGAAGCAATTGTGAATGGGAGTTCACTCATGATTTGGCTCTCTGTTTGTCTGTTGTTG
GTGTATAAGAATGCTTGTGATTTTTGTACATTGATTTTGTATCCTGAGACTTTGCTGAAGTTGCTTATCA
GCTGAAGGAGATTTTGGGCTGAGACAATGGGGTTTTCTAGATATACAATCATGTCGTCGTCGAAACAGGGA
CAATTTGACTTCCCTCTTTTCTAATTGAATACCCTTTATTTCTCTCTGCTAATTGCCCTGGCCAGA
ACTTCCAACACTATGTTGAATAGGAGCGGTGAGAGAGGGCATCCCTGTCTTGTGCCAGTTTTCAAAGGGA
ATGCTTCCAGTTTTTGGCCATTGAGTATGATTTGGCTGTGGGTTGTCATAGATAGCTCTTATTATTTT
GACATACGTCCCATCAATACCTAATTTATTGGGAGTTTTTAGCATGAAGAGTTGTTGAATTTTGTCAAAG
GCTTTTTCTGCATCTATTGAGATAATCATGTGGTTTTTGTCTTTGTAGAGCCCTCAAATTCCTAATCACA
ATTGTTTATCTCTTTCTGACATTCCACATCCAATCCATCAGCATGTCTTATTGGCTTTACTTTCAAAAT
AAATTAAACTCAGCCACTTCTCAGCATTTTAAATACCCCTAATACAAACCCCTGCTACCTCATCAAC
TGCAATGGCTTCCCTAATTTTGTAACTTTTGATCTTTGAGTTCTTCCAAGAGCCAAGAGTTCTTCCA
AAGCTATAAACCCTATCATTGGCACTCCTCTGCTCTATGGAAAGCAGTGGCTTCTCATCTCTTTAGAGT
ATAATGCAAAGCTCTCACCTTAGCTGGCATGGCCCTGTGGGATTGGCCTCCCTTGTCTTACTTTTTCTCT
GTTTCAGGCTGCTGTGACCTCTCTGGTCTTTGGCTCTTACTAGAAACCTTTGAACCCGTTTCTCTCCAGT
GTCAGTATTTGTGTGTTGTTGCTTCCCTTCTCATTCTGTTTCTACAGCACAGAGAAGTAGTA
GTCCCTGATCTAAACACCCTCTCCACCTGCTTCCACTTTGTTTTTTCCCTAGCACTTACCATTATCAG
ATATCATATATTTATTTGTTTATTGTCTAACTTCTCACAAAAATATGACGTTGTGAGGATAGGGATTTG
GCTTTTTGCCCCAGAGCAGTGCCTGACTCTCAATAACTTTGTTGTATTAAGTGAATGAATAAAAAATAAAT
TAAATTTGATTCAAAGTGTATGAGCATGTGTACATTTTACATAAGTGATACATGACATTCTTCCATTCCCT
TGGGGGCTCTTTTAACCATTCTCAACCAGTTGTAGTACCTTTAAAAAATCATGATGAAGATGATTTTGAG
AGCTAATTTTGGTAGGAGACAGCAGTTTTAGCCTGTCCGCTCCATGTGCAGAATAATAGCCTATTTTATT
ACATCTGATATTCAAGCACTAGAATCTATCAATAGGTAAATAATTTCCAAAAATAAAAGCATCAGTGGGA
AAACAGGGAAATTTATTTTTAAAAAAGAATTTCTAGACCAGGATGTGTGCAATTTGTAATCTCTAATAAGA
AACGTTATAGCTGATAATTCCAGCAATTACAGAATCATGATCATATCCATAATGGATCAGTAGAGGCTCT
GGCTTATATAATAGCTTGGCCTCTCAGGATTCTAGAGCCCATATGTAAACACAGAACACATTTATATTG
ATTGACAGTGCATGTAGGTTTCTACAGATTGTGCCAGTCACTGTTTCTAAGGCAGTTATGCCATGGTAA
TTAAAAATTATGGGCTCTGAAATCAGCCTGCCTGGGTTCAAACCCAGCTTCATGTGTGAGCTTCCCTGGC
TGTAATAAGGAATACTAATAGCACCTGCCTTGTGGCTTTGAAAATTACATGATGTAACCTTTGTCAAGAGC
TTAGATGAGCACTTGGGATATGGCGAGTGTCTAATAAATGTTAGTTTACCATCATCATCATCATTATTAT
TATTACTGATTGCAAGCAAGACAACTGGTCTCACTTCCAGCAGAAAAAGAAATTACTGAAGTAATTTTG
GTTAGATCACAGATTTAACGTGAAGGATGAATAACCAGACTTGGAAAACAGGTGGAAACCAAGAGGCAGT
CAGCATGGCATAGCAGCCAGCACCTCACCAGTGTGGTGCCTTGGGGGCAGCCTGGCAGGAGCCACTGCCT
TCACTCCTGGACTGCAGATCTACCACAGGACAGCAGACTGAATTGTCTATGTCCAGACTTCACAGTCAC
AGGGAGCAGGCTGCATGCAGGTGGGGCCAGGTCACCTACCTTCAACCCTAGAGTCTGGAGCCACAGAAAA
CAGTAATTGTCTTGTAGCTTTTGTGATGGAAAGCAAGTCTGACACCCACCAACTCACATACTAGGGAA
TTCACCAAATGTAGGACGGCAGCTAAGATGCTGGGAAACCAAGAATTAACAAATGAGTATTACACCAATT
AGTTAATTCAATTACAGATTTCAATATTTTCCAAAAACATCCTACAAAGAACAGCTCACTTTAATATACT
CCAACAAATGATGAAATCTCTCCTTGGTCATCAGCTTTTCTAAATTTCTGTAACCTTTAGGTGATTCTGAA
TTTCTTAGTGATTCTGAACTTCTAGAAGATTCTGAAACAGAACAGTCTTACTTTGGGATGTATTCAAATC
CTAGAGATCAGTCACATCAATCTGTGCCCTTTTTCTATTATGTAACATGAAACAGGAGGACCTTTCCAAC
TGCCTTGGGAACCTGCTCCTACAACAGGGTATATTATCACATTTAATAAAGAAAGAGTAATATTGCAAT

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GTGACCCCTTCATCTGAGGTCATCGGGACTGTGCTGTCCTCCCAAGCTCCACTGTAAAGGGATAGACAACA
ACCTTGTCTCCCAGTCATTGTAATCTGTATCAGAGAGCATCATTAGATGAATGAAGATGGAAATGTTCTC
ACGGTCAGCAGGTGGGGAAGGCAAGACTTGCTGATTGGAAGCAATGAACCATAGTTCATTCTAAGGCTTG
GGGAGAGCAACTTTGAGGAAATGAGGCCCTAAACTTGCCATGTAGGAGAAGTTGGGGGGTGGTAAATTG
GGCACCCCTTATCTACTAAACGTAATCTTTACTTCCCCACCCTCTAATTTTTCTCAGTTGGGCTTGAAAT
TGTTTTTGCTTGTTACACTTTATGGGAAAAGAAAGGGAAATCCTAATAAGGTCCATGCCAGCAAACTCT
AGAAGAAGAACTAAGAATTTCAAATTGACAGTTTGTTAATGAGAAAAGACAAGGTTAAAGGATTTGTT
AAACAGATGACCAAAATAATTATTGGAACTTCTGCTTCTGGCCAAGGTGGAATAATAAGGGCTACATTT
ACCTTCCCACCAGAAAATATAATAACAAACAAAACTGGACAAAACACTGGACATGACACTGTTGTCTTT
AAACCTTGGACATCAATCAGTGCAGGATGTTATTTTGTAAAGAAAGGGAAAAAATTGGGGTGAGCCTTCT
GATTGTTTCCAGACTGGAGAGAAGTTTCAGGCCACAGCAAGTGGGGAGGAACCTAGGTGTAAGTATATGT
ATAAGGTAGCACATCATAGTGGCCAAATGAATGGCACAGGAAAGAAAACTACAAGAACAGAGGAGGTAG
GGCCACAAAACCTAGAGTGGGGTCCAAGATTCCTATGGATAAAATGGGGTGTTAATTTGGTTTTCAAGGC
CAATACAAGAGGAGGCATAGAAAAGAACAAGGTGGTGTGGGAAGTAGTATAAAAAGGGGCACAGGCTT
ATCCTTGTTTTATAAAAAACAAAGTTTTTGGAAAGGATTTGTAGAGATAAGTTTTGAAAAGTAGTTTGAG
ACTATGTGTGGAAATTCATGAATCTTAGAGTTTGATTTTATTCAGGAGATCAGTAGCTTTTAAATGTAA
AATAAAACCAGTAACTCTATCTAAAAATAATTCTTCCCCTAATCCCAATATAAAAAATACATATAAAAG
CGTAGCTGCTCTAGACAAAATGGCGGGTATGAGATGACCAGAAACCTCAACAGCACTACCTCTGGTAGCC
CCATAGAACTGCCAAGAGTTTTTCAGAGTATAGTTAATTCCTGCTGACGGCTAAGGCAGTCATTGAGTGAT
TGGAAAGAAGACGGAAGATAGACAAGATCAGTTAATTGGGTTGGAGGGAAGACTGAAGATAGGCAAGGTG
ACAAATTAGGAACGTGTTGCAATGATCTAGGCAAGAAGGAACCTATGAACTAGGAGGGAGGCTTAAAGACA
GCAAGGAGGGAACCTATAGGCAGGGACATGTGAGGAAATGCTTAGTAGTTAAGGTGAGTTTGTAGGTATGA
AAGGAGAGAAGGAAAGAACATTAAGTAGCATTAAAGTGAACCAGATAATTTATAGCTCCTTGACCTGAAAC
ATTTAGAGGCTGTGATAACACTAATAATAATAATCTATAATTACATAAATTACGTAGTGAATGATATAT
CATGATATAATCATCTTACCAATGCTTTACAGTCAATGACATTGTGGTACAGAGACTTTGGAGGCAGATA
GACCTCGATTGTAACCTCTGTGCTGCCCCGTGGTATGACCTTGAGCATGGTAGTTAATCTGAACCTTCTTTC
TTTTCTGTTAAATTTGGGGACAATGACAGTACTTAACCTTATAGTACTTGAAGGGAGAGTGTTAGAATTGA
TACTGGGGAGTCTCTCCACAGAAAGTTGTATTAGTTATTGTCTTTATTTTCAATCTTAATGAATTAGCACT
CCCGTTTTCTTTAACATGTTGAATTTAAACCTCTTAGTGTATTCTTTGTCTTGCCTTTTAAATACCCCA
TGAATTATTGAGAAACAAAGAAAGTGATTATGCAAATGTTTGAAATATCTAATAATACATGAACGTAGT
CATGGGAAACTGGAGAAATAACTTTACTGATATTATACTAGTTTTTTTTCTGGAAGCATAGCATATTAAG
AAAACCTCATTTCATGAAAGAAAATTTAAAAATTAGAGTGCATTAGAAGCATAATCCAATGAATTCTATT
CCTAATGAATACTCAGGCAGTATGTTAACTTTTTCTGAGATACAATAGCCAAGCCAAAGAATTTAAAGAA
TGAAAAAACAGATGATTAAACAACTGTGAAGTAATTAGAGGTAGTCTTTGAAAATGCCTCATTAGGCA
TTTGACTCATTAGGACAGATCCTTTTATTTTAGGGCCAGGACATAATTATTTAAGCAGTTGATGTGCTT
TAGCTCCTTTCACCTTGCCACAAGTTGTGCGCTGTACTGCCTTTCCACCTAGCTTCCAAGTCCAGGCCGA
CTTTGAAGAGATTCCTTAGGGCTCACCTCCCCTGGAGAGTGCCTCTGTACCATCTCTCTCCCTTTCTC
CTCATTCTTATGCTGAGTTTATTGTTTTAATAAATTCCTAAGTTAACACCTCCTAGGGTGGATTAG
AATCATTCAAATCCACATTGATTGTTACTAAGTAGAAATTTTATACTGAGCCTTTCTAAATCCTTACAAC
AACGTGACGAGGATATTATAGTTGCTTTAACCCAAGGAGATGAAATTCAAACTGGTGGCATTGCACACTT
ACAGTGGGCTTGCAGGATGAAAGAGAGCTTGGTATCTCGATCCCTTATACAAAACAGGTGGGTCTTGTTA
GAAAAATTCTTCAATAATTGTTAAGGTTAAATTTTGAAAAGTGGTTCAAAGAAATTTGCTTTGATGCAA
ATATTGTCTAGTCAGTTACATAACTTGAGCTATAATGACAGTGTACACTAGCTATCCAGGGCACGACATC
TCTATTGTGCTGTTGAATATACTGCTCAACCATTCCTGGAAAATGGCATGTTGATGATGAATGACAATGT
ATCTTGTGTGTATGGCATTCCAAGCCAACATGTTGGTCCCTGCAAGTAACTTCTTGACTGTCAAGAGGC
TGCCTGTTTAAATATTGTCATGATCTAACTAATTGTTTCCTTTGTTTTTTTCTCTGCTTTATGAGCTGG
TAGTTTGACCTTTTGGCTTTTCCCCTGAGAGTTAACAAAAGTTAGACAGTTGGGGGGTGAACCTTAAGTAA
AATCCATATCACTCTATGTTGCTGCTCTACTAACAATTCAAGAAAATGTCTTGGTAGAAAGCAAGGAATG
AGTTTTAAATTTTCTCTTTGAATTTCAATTATCCATGCCACTCCTGTGGTCCACCATTCTATATAATTAA
GAATAAGCTGTATGTTCCATAGTGACACAGGCTGTTATTTCTGATTTGCAGTTTTCACTTAACCTAGGGT
AAAATTGAAATAGAAAGTCGCATCCTTTTTTTTTTACCTTCTTCCACTCAATTCTAGTTAGATATTTTTGA
ACTTCTATAAAATGTCTATGCAATATTATCACCATAATGTGCAAAATTACTACTCCCATGTAGAAGAGG
ATCCATTCTTCATTGAACCATACCCTTGGGATCCTATCACATGCAGTTGGCCATATAATATTTTATATTA
TTGTTTTTTTTGTTTTGTTTGTAAAGTTTGTACCTACATAATGGATTAAATTCAAATCTCTGTTTAACTG
AAACAAAATCTGTTTAACTGAAGCAAAAAACAAAATCTCTGTTTTTTGTTTGTACAAAACAAAAACAA
TAATATTTTTGTTTTGTTTGTATACTTCATAGGGACTTTGGAATTTGGAAAATATCGTTTCATTTAGGGTA
TATATATTAGTCCATTTTCATACTGCTATAAAAGAAATACTTGAGACTGGGTAATTTATAAAGAAAAATAG
GCTTAATGAACTCACAGTTCCACATGGCTGGGGAGGCCTCACAGTCATGGCAGAAGGTGAAGGGGAAGCA
AAGGCATGTCTTATATGGCAGCAGGCAAGAGAGTATATGCAAGGGAAGTGCCTGTATGAAACCATCAGA
TCTCATGAGACTTATTTACTATCATGAGAACAGCACAGGAAAAACCTGCCCCCATGATTCAGTTACCTCC
CACTGAGTCCCTCCCACATGTGGGGATTATGGGAACATAATTCAAGATGAGATTTGGATGGGGACACAG
CCAAACCATATCAGTACATTAAAGAAAATATTTGTTAGCGCTAAGTGAATCTACTTTCACCTACTTGATT
ATTTGATGATTTTATAAATAGTCATCTCTTTCCTCATCTTTCCAGTCGTATTTTGTGTTCCAAAGCCAA
AACCTGTGTGCTTGTATTCAACAACCTGAATCATACAGTTGTGAGACGTAAATGGGTGTGGTGGTTCCA
CTTACTTCTTTACATAGTACTACAATAAGCCATCTAAGTAGTCTGCTCCTAAATTCCTCCAAGAAGGGA
AATATCATGATTTGATTTAAATGTGACATCCTTTCTTAGAGAAGTTTTCTTTGTCTCCTTCTTCCCCAGT
CACTTCTTCCCATCCACTGTGCTTTCGGCAGTTTTCGTTTCATTAAATTCATTCAACGAATATTGAATAA
CTTTTGATCAATGTCTTCTCCCTCCAAGCTGAAAACCTTGATGGAGGGTAACATGATCTGTCTTTGTTTA
CCACTGCATCTTCCGTGAATATACATTGTAAGTATTGAACGGATTTTTACTAAATGAACAAATACTTTGA
TAAATATTTTTGATTACTGCCAATATCAGTTTCTGAATTGATTCTAAAATCTTCTGCTGGAAAGTAGA
TTAGCGTTAGTATGACTGCTGAAGCCTTTTAAAGTGGGTGGTAATACTACGTTTCGTTTTGTTTCATTAA

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CCTAAGTGCTGTTCTTTGGAATCTTTTAAAGTAAGATAAAATTACATTCATGAAAGAAGCATATTATTTT
TAAAGTACTTTATTTTGGAAAGGTAAAATGCTTGTGTAGTTATAATTTGGTTACTCTTGATTTCACCTTA
GGAAAAACAATATCACCTTCTAACCATTTCTTTTTTAGTCAAATCTCTTGCTTCTATTTCTCTGTAGA
TCCGCTATTAAAGACTGTAATCACTGCTGCATCTTTCTGTAAAGGCTTGATCGCATTGTAAATTTCTTTC
TAAACTTGTAGAGTAGGTGTATAAATCGTATTTGGGTAATACACTGACTAATACTGAAGAACCAGGCATT
TTCTTACCCCAGTCCTCACACGAAGTAGGGAAATACAAGTCAGAACTTATCTTCTCAAACTCTGACCTC
AGAATTTCTGAGAAATCTGAACCTAAAAAGATTCTTTGCTTTTGACATTTTTTCTCTGGTGTCCACCGC
AAGGCTCTTGCTCTTACATTTTTTTTTTTTTTCTAATGTTTCAAATAGAAGATGGTAGAGTCATATAGTA
CAAGCTCAGCATCGGAGGGGCTACTGGAGGTCAACTAGTGCAAATGCTTCTGAATAATGGAATCCTTTG
GGAATACCCCTTGAAAGTCTTCATCTAGCCTCTTCTTGAAACCCCTCAGTGATACCCCTCATCGTCTCC
TATGATGGCAGCTTCTATCTTTGTCGTCAGCTCTGACTATTACAACTGCTTCCTTACATTGAGCTGTAA
CTAACTAAAAAGTTTCCACACCCTGCTTCTATTTTAGCCTTTGGGCTCATAAAGAACAAGTTGAACCCGT
CTTATGCAGAACAACCCATCTACGGGAGATGCTCAGGTTTCTCCATGTTTTCTCTTAGGCTAAC
CTTCGTTGTTCTCACTTACTCACTATATAACCTGATTTTCATGTCTCCTTACCCTTCTTGTTACTCTAAC
TTGAGTAGGCTAGTTTCAGGATCCAGCAATAAGTGTGATACATCAGGTATGCTCTGATGAGTTGAGAGTA
GAGTGACATAGCATCTCCCTTAATTCAGATATTGTGATCTAATTGGCAAATCTGGCAATAAAAGTTGAA
ATGCCTGATCCAGGACAATGGCTGGTCAGTGCCATTGTTCTCATCTTTTACTTTTAGGTGTCCCTCAAT
TTGTTAAGTTAGTACCTACGTAATGTCTGAAACTTGTTAAGTTTGTACCTACATAATGGATTAAATTCA
AAATCTCTGTTTAACTGAAAACAAAAGCAAACCTTCTTTTCAGAGCCAGAATCTGGAATCATAACGTAAACAG
AGAATGATATTGTACAAGTTGCTTCATCTTTAAGTAACGGTTTCTCAAACCTACAAGATTATTGTGAG
AACTAAATTAGTTCTAAAGTGCTTCCATGTAAAGTGTATGTAAATGCTTAAATATATAGTAAGTGCTGA
ATGCATATTAGAAATAATAAATCTTTATTATAATTTTTTACTATTTTCATGAGAAGTACTTATTTTAATA
CTGAGCAAATAGGAAGAGTTTCTATGTTTTTGAAGTGTCAATTAATATATTATATATATAA
AACATATATATTTTCACTCACACATTTGTCCAAATACCTTGACAAATTAACAAAATAAGACAAAATT
CTCACGCTAGTTATTTGTTATAAAGTAATAGAACAAGTGATATGTTATAAAGAGCATTATTTCTCATGT
CTTTGATATTAAAAATAGTTGTATTAACTTTTATCAAACGATTGCTTCTTCATATAAATCTAAGAAT
TATGCTGTCTGATAAATATTGGAGAGATTAACTTCTTTGAAATATAGAAGCTTTTTGTCTTTTTTAAAT
AGTTGTTTTTTTGCAGATGTTAATACATTTCAAGCAGTACAGTATGGCCTTTTTCAGGTTAAGGTGCTGAG
CCCAAACCTCAAAGAATCACTGCAAAAAGATTGGATCCCCCTCTTCACCCCATTTTCGTAATTTAGTTAG
TGAGAACCACAACCTGGCTAAACCTTTGTGGGGGGCCGGGCACTGTGGCTCATGCCTATAATCCCAGCACT
TTGGGAGGCCGAGGCAGGCAGATCACAAAGTCAAGGATCGAGACCATCCTGGCTAACACGGCGAAACCC
CGTCTCTACTAAAAATACAAAAATTAGCCGGGCATGGTGGCAGGTGCCTGTAGTCCCAGCTACTCAGGA
GGCTGAGGCAGGAGAATGGCGTGAACCTGGGAGGCGGGGCTTGCAAGTGGGCGAGATCCCGCCACTGCAC
TCCAGCCTGGGTGACACAGCGAGACTCCATCTTAAAAAACAACAAAAACAAAAACAAAAA
CCACCTTTGGGGGGAAATTATCAAATAAAACAACTCTTTTGAATTTTACAACTTTTATGTTAGGAAA
AAACAAATACATTTGTGAAAAGCTTAAATCCAGTAAATGACTTGAGGGACTTGGGGCAATCCTAGGGTG
ATGAGGAGCAGGTAGTAACAGTGAAGGACTTAGCACCCAGGGGGCCAGAGGCTGTAATATACCTTATG
AGCAAGTCATTCTTATTTAGTCTTGCCCATTAAGAAGTCTACTTGGAATAAATGCTTTTAAATGCCCCT
TTTAATTTACTATTAAAAGAATATTCCTAGCAGAAGTAGTCTTGATGCTAAATTCATTTTAAAGATAA
CTAAATTTAGAATTCTGTTCTTTTTATAACACCTGTTACACACACACCCCTACCTAGTGTGTCGGAATCA
GTTTGTATGGGCTCACCAAGCCTACTGTTCAATTTTCAGGAGTTTGTAAAGCCATTTGATGTCAGACAA
GTGGCCTGAAGTTTGTATGGTGGTGGTATTTACACCATGAAAATTGGCATGTTATGGTGGTAGTATTTA
CACCATGAAAACCTGCTACAAATAGAAATCTTTTTCTTCTCTTGAGAGCCACTTGTTGAACACTTAC
CAGCTCACCTGTGCTTGAAAGTATTTCTTCAAATAAAATGAAAGCTGGTTAGCTTTGAAAATTTTTTGTA
TAAAGTTTACACGGGAAAAAATAAACTAATTTTTTTTTTCCACCTGTGTTTTTTCAGGGATACGAAAAGA
CCGAAGAGGAGGGAGAATGTTGAAACACAAGCGCCAGAGAGATGATGGGGAGGGCAGGGGTGAAGTGGGG
TCTGCTGGAGACATGAGAGCTGCCAACCTTTGGCCAAGCCCGCTCATGATCAAACGCTCTAAGAAGAACA
GCCTGGCCTTGTCCCTGACGGCCGACCAGATGGTCAGTGCTTGTGGATGCTGAGCCCCCATACTCTA
TTCCGAGTATGATCCTACCAGACCCTTCAGTGAAGCTTCGATGATGGGCTTACTGACCAACCTGGCAGAC
AGGGAGCTGGTTTACATGATCAACTGGGCGAAGAGGGTGGCAGGTAAGAATGCGAAGCGCAGCTTTTAAG
AGTCAATAGCTTTTCAAGAACCTGTTGTGATGTCATGGGAGAAATAGTGGGGGAAAAAGAAGCAATAACA
TGTTATGTAATTGGTTTTCAAGGTTACAGGAGATGTGTTTCTTTTTCAGTATCAATACACTGTAATTTTCCA
GGAGATTAGGAAATAATATTTTTAAATCAGAATCTAGAAGACTGAAATTCCTTAAATTGACATAATTTATT
TTTAACCCATCTCATTTACCAAAAAGATTTAGGGTGGACACTACATGGTAAACTATTTAATAGTGTATG
TTCACAGTAGCAGAACTTTTAACTAAATGAATACTACAAAAGTTTGTAAATATTAATGACCTTTGTTGAA
AACATCTCAATTATTAATCAAACGATTTTATCTTAAAAAGATTTTTAAGATTTCGGTGTGGTGGCTCGTGC
CTGTAATCCTAGCACTTTTTGGGGCTGAGGTGGGAGGATTGCTTGAGCCAGGAGCTTGAGGCCATCCGG
GGCAACGTGGCGAAACCCCTGTCTCTACAACAAATTTTTAAAAATTAGCTGGATGCAGTGGCACACACCTG
TGGTCCCAGTTATGGGGGAGGCCGAGGTGAGAGGATGGCTTGAGTCCAGGAGGTCAAAGCTACAGTGAAC
CATGTTTGTGTGGAGTGCCACTGCCTCCAGCCAGGTGACAGAGCAAGACCGTGTCAAAAAATAAAC
CACACACAAAAGAGAAAGATCTTTATGGATTAAAAAGATAATAAAGTGTATTTACTGAATGCCAATT
ATTTATCCAACCTGGTGTATGCTTAGTATTTTAGGAGAAAGAGAAAGGCAATGGAAAAATAAATTAAGGT
ATCATCCCTGAAAGAAACCTTTAGAAAGACACAGTGGCTGAAGTGATACCTTGTTCCTTCAGTTGATTCT
CTCAGAAGTGGTGTCTGGTAAATTTGGACTGTTACTCCTGTATTTCAGGGAGAAGAACTCAAGTTTGTA
TGGCAACAAGACTAGAAAATGACTTTCTCCCTGCCCCAGTGTATTCGTTTCAGGAGCTAATGTAGATAAAC
CGAGGCAAGAAGAAGCTAAATTTTTTTCTGGGCTTATAGGTAAATGAGTGATAGATTTAGTTGGAGGT
TTTCTCATTTGGTTTCTTTTAAATAGATGAAATTAATTGTTTCTATGAAGCATGAAATGTTTTATATGAA
ACTAAAAAATGTGGAGTTTGTACTTGCATTTCAAGGGTCACTGCTCTGTTATAGGCCAAGTGAACCTTAT
GTCTGGCCTTAGAGAATCTTACATGTATTTGCATCTATCAGTATATAACATGTGGGCCGTAGAATAAGG
AGCCAGCAGTACCAGAACCCAGCCTTGTTAGAGGCCACCATTTTGGTGGTTGAGTGGTTATTAGTTTACA
TGGAAGCATGGAGAATAATAGGCAAATGTAGGTTTTCAAGTGTGCTGCAACTGGCAAACAAAAATTTCTG

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GTCATCTTCAGAAATGAAAAGTTTTCTTGAGTACCTACATATTTTAGCATTTTCATATGAAGCAGATACAT
TATAAGTTAATTGTTGGAATCTAATTGTAATATGGCTGTAAGTTTTTTCTTTATATTGTTATTGCCTTG
TTCTTATATTATAGGGAAAGAGAAACAAACAAACAAAGCAAAGAACTAATGGTCATATATTTGAGAGCCA
ACTCTTGGTTGCTGTTTCAGTTTTATTTTCTGTAAACATATATTTTCCCTTATGAAATCTTGGGAATATT
AGCTCTGGAGCACTGCTGAACTCAAGTACAGACATTTTCATGTGTATCAGTAGATTCCCATCATGACATT
TTTATAATAATGTTGAAGAGCATTTTAAACAACCTGGAATTAAGCTCAAATACATTACCAGTGGTTGAAGA
ATTCACATCAATAATCTTCTGAATTTAGGAATAAAATGGAGAAGTCAAGGAAAGCCAAATATTATACACA
GGCTAGCAATAGTTAAAATACAATTATTAAAGCCAGAGCTAGACAAAATTATGGCAATGAGATGTGTAAAC
AAAACCACTCTGTAACCTTCATCATGTTTCGTTTAAAAGACCTGAATGATTCCAAAATCCTTAGACCAATAA
ACTATGTCTTCTTACTTGATAATTAAAAAAAAGAATTATAAAGGCCAAAATGAAATTATATGTATGTGTG
TTTGTGTGTGTTCCATGGGAATACAGCTGTTGTAAATCAAAGGCCTACTTGCCCTGACCAAGCAGAATAAA
AATAGTCATTGATTTTAAAGAGACTAAAAGTGAGGGAAGAAAAAGTCTTCTGCAAAAGCTCTACAGATG
GTTGTCAAACCTTTTCAGAAAAATAGACAAAGCAACATTTTGAAGGATTATATCTTTTATATATTCAA
ATACCATCTGTTATTTAAAAAACATAGCCCACTGAATATCTGATATAGACAATATAACGTTTATGAGA
TAATAGTTTGAGAATGACAATAATAAGTAAGTTTTTAAAGAGGAAATAAGCCGGGCACAGTGGCTCAT
GCCTGTAATCCCAGCACTTTGGGAGGCCGAGGCGGGTGGATCACCTGAGGTCAGGAGTTCAAGACCAGCC
TGGCCAACATGACAAAACCTGTCTCTACAAAACAGTACAAAATTAGCCAGGCTTGGTGGCACACATCC
ATAGTCCCAGGTACTTGGGATGTTGAGGTGGGAGAATTGCTTGAACCTGGGAGGCAGAGACTGCAGTGAG
CCGAGACCCCACTGCACTCCGGCCTGGGCAACAATGAGACTCTGTCTCTAAATAAATAAATAAAGAA
GGAAATAGTAAACGTCATTAGTAAGAAGAATAGCAAAATTTTCAGTTCTAGAAAATACCCAGAATTAGCTAT
ATGATACAAAAACCTCATGAAACATTTGGATAATCCTCAGAATACCTATCAATATAACAAAACTATGA
ATTGACTTCATTTTGAATGATGAATTTTTTAACAAAAATAGTCAATACTTTGGGCTTAGTAGCTCTAGAAG
TGCTTCTTTCTTCTTCTTTTAAATTAACAGAATATTGTCAGAATTTTCAAATGTTGATGATTATAAGTTG
AATTTTCCCTTTTCATTAACCCCTGGGGCTTATTTTTTGACTTGATATGTTTCTCTACTCAGAATTAAGAT
GTGAAGAGCTTTGGGATAGAATGCATCATACAAGTGTGAGAGTCAAGTTCCAATCCATAAAGTACTTCTG
GTAGACCTGGATAAAGATGACCTTAAGAAATGATTTTTTTTCTCTTTCAGTTTAAAAACAACAGTAGCA
ACAAGAATGATAAAACCTATGAAGCCAGCTCTGACAAAAGATGTTTTTTTATAACACATACTATGTATCT
ACTTTTTGATATTTATCTATCGAGAAGACTTTTCTCCTTATTGTTTGCTCTGAAATTTGTTTATATTTAA
TAGGAATTTTATAGCCTTATCCCTGGGTAGAAATTCAGTTTTTTTTTAAAGTAGATAATTAAATCTTAATT
TACTATTATTTTACACATGGTGAACTAGTCAATAAATGTAATATCATTGAGCTGAAGGTTAAAAAGGAA
AAAATATGACTGCAAGAGTGGTTGTATTTTTGATTTTCAGCATCACACTCAATTGCATCATTGAGTGGTTC
ATTCTTAGTTTCAGTGTAAATGAAATACATCTGAGTTTTTTTTTCCCAGAAGCTTGAATTGTGTACACAAA
GTGTCATTTTGATTTATTGAAAGTTAAGCCCTTCCAAAATTCACCATAATTTACATGTCTCGAAAGCA
ATTTTATACTTCAAGTCTGTGCTATAGTTCTATATTTTTATGAAGATTTGGATAGATATCTAGCCCTGA
GTTTTTTATTGCTGTAAATACTTATAACCCAAAGTGTAGCAGCCTCATGAACTGCTGCTGGGCACAGA
TCTGGGAGAGTGCATCAGAGTGTGGCCCAGGAAGAGGAAAAGAGGAAAAGGGGCAGTTTCAGTGGCAGC
TTGGCTTCCCTGTGAAACATGTACCTTAACCACTTCCCTCATTCTTTTAGTGGCAAACCTAGACGACCTTCT
CCTTCCCCTTCCCTGCCGAGTCCCCCTCTAATCAACACTCTAGAAGGCCCTCTCCTCCTCAGTCTCTGA
CTCCCTGTCAATTACTTCAGGTTGCCTCCTTGCTCAGTTTTGGCCCCAGGGGTAGGCAATCTCCTCTTTC
TGGACATGTCTCCACCAGCCCCAAGTTTCAGATTTCTTGGAAAGTTTCTGTGTTGTCTCGAGGATGCATGG
TTGTGTGAGTTATTCCAGGGCTCAAGGCCTCTCTGTGTCTGTATTCCCCAGGAATCCAGGAATTCATT
CTCTGCCTCTCATCCTCATCCTCATATAAATGAGCAGATTTGAGCTCAGGAAGTGCTTGAATAAATG
AATAAATGAACAAATGAAAGGTGATTTTTGAAAGTCTTAATTTTAAAGAGTCTCTGAGCCCTGTTACAGC
TCAATTTTCCCATAACTAGAACTGCTCTCTAAGGCTGTGACATTTCTCCTTTTTCTCTCTCTCAAAATC
TACCTGCTGTTCTGATATCTCCCTGACAGCCACCATAGTGAGATTCTATTTCCATTTCCAATCTCTCTTT
TGTAAGGGACAGAGAAACAGCTAGAGAAATATGGAGCCATGCGCTCTGAGGACTTTAGCAGGCTTCAACT
CTATCTGCAAGTGAGTTTCACTTAGCGAATGAAATTTGAAACTTAAAGTGGGTAGGGATGAGGGTTCCCG
GAGAAGGTGTAATACCTCAGTCTGGGAATTGGGAGCATCTACAAGGAACACACTCAATTCTGGGAGGTTT
CTGTAGATTTTCAGAGATTTAGCAGGGCTTCCCAGCACTCTGCTTCCCAACCTGTCATTGGACCAGTAAAC
CCTGCTCTCAAACTGTTGTGGTGTCCAGCATGCTTTGGCAAGGTAATGAAAGATAACATGACATGGACAT
ATGGGTGACATCCTGGAGAGATGACAGAAGTCTCTGTTTAAAGGACAAGATTTGCCATTTAGATTTTGCAC
CCACTGTATAATAAGAGCCTTAGGATTGGGCTGGAATCGCCCTAGCAGGCATGATGGCAGCCCTCTGGA
CTGGCAATATGCAGCTTTTTTGCAAGTGTTCATGTCCAAGTCAACCCACCCAGCTTTCTACTGCTCCCG
TGGAAGCTCTGGTGAACGCAAGGAAAGCAGCTGCTGTTGACTGGATTTTTCTTTTACATGAAACTTTGA
AGCCTCATAGATGCTTATTGGCCTGGATGCTATTAAACCTTTAAAAATCCCTTTCTCATCTTGAGAGTAT
TTGAGAAACATGTCTGGGGCATTTTTGCCACCCCTCCTCCAGGTTCTGTGTTCAGTGAGTGATATGGTTTGC
CTGTGTCCCCACCCAAATTTTCATCTTGAATTTCCCATCTGTTGTAGGAGAGACCCATGGCAGGTAGTTGAA
TCATGGGAGCAGGTCTTTCCCATGTTCTGTGATAGTGAGTAAGTCTCAAGAGATCTGATGGTGTAAAA
AGGGGAGTTTTTCTGCACAAGCTCTTCTTCTCTTGTCTGCCACCATGTGAGATGTGCCTTCCACCTTCTG
CCATGATTGTGAGGCCTCCCCAGCCACAATGGAAGTGAAGTCCATTAAAGCCTCTTCTTTTGTAAATTG
CCTACTCTGGGATGTGTCTTTATGAGCAGTGTGAAAACAGACTAATACAGTGAGTCTGGGTGAGTGTGTG
TTTATGTTGAACGTAGTGGACTTGTGGTGTCCCCAGGGCACCTGTGGGGAATGTTGGCCTGTGGCTTTG
CTACTTCCAGGGGATTTGGCATGGAGAATGTGTGTTTTAAGTAATAGATAGATTATGATTGAAGTGTGT
TATGGGCTGAGTTGTCTCTCCTCAAAAAGACATGTTAAAGTCTAACCCCCAGTATCTCAGAATCTGACC
TTCTTTGGAAATAGTGCCTTTATATAGGTAATCAACTTCAAGTGAAGTCATTAGCACAAAGCCCTAATCCA
ATAAGGACTGGCATTCTAATGAAAGGGGAAATTTAGACATAGAAACAGACATGCACAGAAGAAGATGATA
TGAAGAGACACAGGAAGAGGACGGTCATGTGACTGGAGTGTGGGTCTGCAAGCTGAGAAATGCCAAGGT
TTACTGGCCAACATCGGAACTAGAAGGGGCAAGAGTGGACTCTCCCCCTCAGAGAGAGTATGGCCTTGA
TTTCAGACTTCTAGCCTCCAGAACTGTGAGGCGTACATTTCTGTTGTTTTTGAAGCCACCTAGTTTTTGA
TACTTTGTATGGGAGCCCTAGGAATTAATACAAAGTGTATTAAAAATAGAATTTTCTTCTATTGATTTT
TGAGGCAAAAGAAATAAGGAGCTATTGATTTAAGGAGGAAGGTTTGGCTCATCTAGTATAGACTTGGCTA

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ATCATTACTCTTGTATATTTCTCTTCTGCCTGCCCAAGTAGTTCCTGAACAGGCTTAGAAGTTGATTT
ATAATTGTAAGAGTTTACACATCAGAAGTTAATTTATAATTGTTAACAGTTTCATGCATCTACCTCATAA
ATACCTTGTAAGAGATTTTACCCTTCAGAATAATGTTTTCCTCTGGTACTTTAGTAGTTTATCCTTTTTT
TGCATCTTTGATGCATTTGAATTCATCCTGGTATGCTGTGTGAGCTGGGGCTCCAATGTCGTTTTCTAC
AGATGACTCCACAGTTGTTTCGGTTTCATTTCGAACAGCCTCCTACAGAAGTATTTTCAGACTTCTTTTA
TACTTGACTTCCAAGTTTACTACTGGTTAAGAGCTTTTAAAGTAGGGGGAAAGATATGACCCATTGGCCT
ACTCGTTTGATTATTTTTTCCAATTCTGAAATCAAAAATTAATAATTTATTCAAAGTTATAGTTTCACT
TAATTTATATTAAGTGCATAGATAGTGTGATTCTGTCTGCTTGGACATATTTAGTAACTTTAAATT
AATCTTAGAGATAAAAGATAGAAATCTATGAGACTTGAGACATTCAAATAAGACCAGTACTGATAAGAGG
TAATCAGGTGAAGTGCCATTTGGTTGTAATAGGACATCAAAATTGTTCCCAAGAGTGAAGGATGTTCCA
TTCTCACTTTTCCCATCTGTCTCCCAAATTCTTCACTCTTCTGATGCTTTGAACCAACTTGAAAAGT
TAGTCCACTCAGAACCCTCAGCTGTTAAACTTTTAGCCTCTGCAACAACTAGCCGTTTTCTCTTTGTC
CCTTTACCATCAAGCTCAGTTGCTTCTCTACTCCTCTCCCTTCTGCCAGGGGCTCCACCCTTGTCTC
ATTCAACAGTGGAATCATCTGTGTGCTGTCTCTCTTACTGTGTACCATTGGGTCTCTCTTACCA
TCTCTAAATTTATGCTTCTTCCCTGTTCCACTGTCAACAGCTTGGTCTACATCCTACTTTGATCATTGG
ATTTAGGTCCCACCCTAATCGAGTATGACTTCATCTTAACTTGATTGCATCTGCAAAGACCTGATTTCCA
AATACGACCACAAGTAAAGGTTGAGGTGGACATGAATATTAGGAGAGACAGCACTTCAATTAACAGTTG
GCATTAGGACTTTATTATCTAGCTTAGTAATTGTTTTAACAGATAAATAATAGTATCCCCCTAAAGTTTAA
AATGCAGAACCAGATTATGCCTCAGGGTGCCTAACCTGAGAGGAAGAGTCTTTCTTCAACAGACTCTGGG
AAAGACCTTTGTAAAAAGGCTGGTGACATTCTATTTGATTTCTACTTTCCAATATTAAGTCTTAAGTC
AGACAATCTCCTTGGCCACGCTTTCCCTGCCATTCTCCCTTCACATAATGTCTTCATTTTATTTTTC
CCTTGTTTTATTCCCTGAACTCCCTTCTCTCTATTAGATTCCCTGCCCATTTTTTCTCCTAATGAGACG
CCTGACTTCTACCTCCTTTTTGAACTTCAAAGTCTTAGCAATACAATTTTGAATTGAGTTTGCTGT
CACAGAACAAAACTAGTCCCTGGTCCAGAGTATCTTGCAGGACTGAATCAACTGTGGTCTAAGACACAA
TAATAACTCTTAATTATTTCTTGTTTCTTTCATGGTATATTTGTTGCTGGATGATGAGTTTATATTATG
GTTGAATTTCTTTTTGAAATGAAAAGATGAATAGTCTTTATTGGCTGGGTATCTATTTTTATCCAGAAG
ACTTTGCAAATGAGAAATATTTCTACAATCTGAGTTTAAATTTGCTTAAGCAATGAACCTGTTCTTTAAA
GTCGTATATGTGCAAAATAAATTTAAATTAATAAATCATATTTTAAATGTAGTCAGGGTAGCTTTCATTT
AAATAAAACCTATGACAAATATCCACGTGAAGGTATCACTCCTTTAACAAAACAAGTGTCTCCTTTTTT
ATTGAAATACTAGTTTTTCAAAATTGAGATTCTTAAATGTGATGACCGCTTGGACTGACTATAGTATAGC
TGCGTTCTTAGAATGGCCCTGAAACCACAAGGCCTCTCCAAGATGCATGTGGCTGACTTTCTGAGGTGAC
TGCATTGAATCTTTCTGGCTTAGCTTATTCTGCATCCAGATCCCTGGAAGCTATTTATCCCCAACAGTG
GTATATTTAGACCCATTGTGTGCTAACCTCTCTGTGCCCTAAGTACCAACATAGCCAAGCCAAAGTTCGA
ACTTTGCTGCCTTACAATGGAGGTTACATCGTAGTGATGAAAGAGGTTAATTTCTTTAGGAGTTGAAGA
CCAGAGAACTGCAAAAAGGGGAGAAAATCAGTGTGGCTCTAATGAGAGCTAAGTGAGTGAGGCAATAGA
AAACAGTGAGGACCGGCCAGTGCGGTGGCTCATGCCTGTAATCCCAATACTTTGGAAGGCTGAGGTGGG
GGATCACGAGGTCAAGAGATCAAGATCATCTGGCCAACATGGTGAAACCCTGTCTCTACTAAAAATACA
AAAATTAGCTGGGTGTGGTGGTGGGTACCTGTAGTCCCAGCTACTCGGGAGGCTGAGCGGGGAGAATCGC
TTGAACCCGGGAGGCAGAGGTTGCAGTGAGTGCAGATTGCGCCACTGCACTCCAGCCGGAGTGAGACTCC
GTCTAAAAAAGAAATACAGTGAGGACCTTGAGGGGAATCTTACAGTGAGCAGAATTAAGAGAGA
AGAATTCACCTATTTCTATATAACTCCCTCTGTAACCGATAACTTTCTAGAGAAAGCTCACTGAATATA
TTTGAAATTTGTTTCATACCACTTTTATGTTATTGCCTTCTTTCACAGGAACCAGAGAGCTCTAACCTGT
AGATTTGCTTTGTTGTCTTACTTTAGACTACAGCCTAACTGACTGTTGATTTTGGCACAATTATTAC
ATCTCTCCTTTACCCCGCCTCTAGCCCTTTCTTAATTACCCCATTAGGCATTTTCTTGCTAGCGTGA
ACTAAATCCCCTGTCTCAAGCACGCGCCTGTACATTGAAATAGAATGTTAATTCATTGACGAAATTAAGT
GTTCTTGATTGGGAACCCCTAGTTCCAGGGAATCTTAAGGTTTCAATTCTGTTGCCTTGGTTACTAACT
GTTCCATGCAGTTTGCTCAACTTTGAATGGATACTTCTCTTAGGAACATTCTCCCTTGTAAGTAAATTGC
TTGACGTGTTAAATCTAAGTTCTGTTTTACAATTCTTGAGACAAATTCACCATGATTTAGTTTTAAAA
CAAGTGGCCTTGTCCTTTTAGTCTAGGATTTATCACTTAGCTGTATCTAGCAAAGCCCCCTCACACAATAG
TAGGAAAAAGCAGAAGTGTGATTGCTAAATGAAGGGGAAATGTAATAAATGATGGAAGTGCCCTTTTTT
AGGGGGAATTAAGTTTCTCTTTGTAGTGTTACATGTATTCTATGTGACTTTCATAAATACAAACCCC
AATAAACGGTGGGCAGTTCCGTCTCTGGAGATGTTAAGTGTCTCTTCATAGAATAACATGGCACATCAT
AACATTTGATTCTTTTACCTGGTCAAGATGTTTGCTTATGGCATTGAAATGCATATTTTCAAACCTAGG
TAGATGAATGGTTTAAATATAAAAATTCATTCAAGGCCCTGAGCTATAGAAGAATATCTTCCAAAACATG
CATTCAAGTTCTATCTGTCAAGTGTGTTTTCTTTTTGTCATCAATAAGGCAGCAATGGAATACAATCAGATTT
ATTTTTCTTTTATTGCTGTCTACAATTACAGAGATATAACCTGAAAAATATGTTGTCTCTTCCCAAGTAGA
TCTTGTAATTCTCTGAACTGTGATCCAGACCAATGCCGCCCTTACATTGGGTCTGTGGAAGTGGGAGGGT
CCACTGAACCTGGTTATGAGAGGTTTTCAAATTGAAAAGATTTACAAGTATGTAAATAAATCAAATAGTC
AATTAGTATCTAACATATACATGTCAAAACACATAGCCCCAATCTCATAAAATCAAAGAGATCTACCTAA
ATAGATTTGTTTGCTTAACAAATAGCAAGACCCTTTGACAGAATCTTTAGCATGACAGTGATTGTCAA
ATGGGTAAATGGTTATTATTGCCCAGTTAAGTAATTTCTGATTTGCTTTGCCTTGATTACTCTTAATAAA
CTAACTTAACATACCATAGAAGCAATATTTTTTAAAAAGAGGGTATATTCTAGAGCTAGATAGGGTGTT
GTGCAGCAATGTGAATGTACTTACTACCATTAACTGCATACATAAAAAGGGTTGAAATGGTAAATTTTA
TGTTATATACATTTTACCAAAATAAAGAAAAGTTATAATACTTTCCGTAGCATATATAAAAAAGAAACAG
ACATTTCATAGCAAAAATAGGATAAAAATGATATTAAATTCATAGGGGATTTCTCTTATCTAAAACCTTTA
GATTTGATTCTTAGATAAGAATATAAACACATTGCAAGAAGATAAATCAATAAGCCAATGAAGTAAGGTG
GAATAAATAAATAGAAATAGGTGATACTTGGCGCTCTGACAGCATCTGATAATAATAGTACAAACAGTTT
CATTTCAATTAACAGTTATTTGATGAACTCCTGTGTGCTAGGAAGTATTTTAAAAAAGTAACCTTTTA
TTTTAGGTTTCAAGGGTACATGTGCAAGTTTGTATATAGGTAACTCATGACTCGGGGCTTGGTACACAG
ATTATTTTGTACCCAGGTACTAAGCATAGTACCCAACAGTATTTTTTTTTCCGAACCTCTCCTCCTCTC
ACCCTCCCTCAGTAGGCCAGTGCTGTGCTCCCTCTTTTTGTCCATGTGTTCTCATTATTTAGCTC

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CTACTTATAAGTGAGAATATGCATTATCAGGTTTTCTGCTTCTGTGTCAGTTTGCTAAGGATAATGGTCT
CCAATTCCATCCATGTTTCTGAAAAGGACATGATCTCTTTCTTTGTTTTATGGCTGCAGTGTATTCCAT
GGTGTATATGTACCACATTTTCTTCATCCAGTCTACCATTGGTGGACATTTAGGTTGATTCCATGTCTTT
ACTATTGTGAATAGTGTGCTGTAATGAACATACGCGTTCATGTGTCTTTATGGTAGAACGATATATAATCCT
TTGAGTATATACCCAGTAGTGGGATTCCCTTGGTTGAATGGTAGTTCTGTTTTTAGTTCTTTTAGTTCTGT
GTGTGAAAACACACCAGAGAACAAAATTGACCAGATCTCTGCCTTCACAGAACGTTTCTACTGTACC
AGTTATTTTCATGAGGAATATGAATACTGTTATTACTCTCTGCCCATTTCACACATGAAGGAGCAGAAATG
GAGCAGAGTTTACTAATTTATCTGTTGCAGATAGTAGCTAATTGTGTGCCAGGTGCTGTTCCAAGCATT
TACCCCTGTTAACTCAGCTGAGTGCTTTTATTTTCCCCATTGTATGCCCACTTATGGATGACAGCACTG
AGGTAGAGAAAAGGTTAATAACATAGAATAGTTTAGTATTAGGGAAACAATTTGAATTTCTAGGACACTTTT
ACTGAACTTAGCATAGGCTAAAGAAGTGATCGTGCATGTTTAAAGAGTTGTATCATTTTATCATTATTT
GACTTTCTTTTCCAAAAAACAACCCTTCTCCTTTCTCTCTCTTCCATGTGACAAATACATGTCTGTAT
ACATACATATATATATAAATATAAATATATATATAAATATATAAATATAAATATATATATAAATAT
ATATATATATAATTTTTTTTTTTGAGATGGAGTCTCACTCTGTTGCCAGGCTGGAGTGCAGTGGCATGA
TCTCGGCTCACTGTAAGCTCCGCTCCTGGGTTTATGCCATTCTTCTGCTCAGCCTCCCGAGTAGCTGG
GACTACAGGTGCCCGCCACCACGCTGGCTAATTTTTTTGTTTTTTAGTAGAGATGGGCTTTCACTGT
GTTAGCCAGGATGGTCTCGATCTCCTGACCTCGTGATCCGCCACCTCGGCTCCCAAAGTGTGGGATT
ACAGGTGTGAACCACCACGTGCGACCCACATGCCTGTATATTACAGCCGTTGAAGGACACAACCTTTGCC
ATTGGGCGACCCAGTCCCCTAGTAAGTGTCAAATAATTCGCTATTATCATTGTTGGTGATTTCGAGGA
TTTGGATATAATTAATTTGAGCCTAATTTTTTAAGACTATTACATAACTATACAAAAAATCATGAGAGA
GCCTGGAATTTGCAAACTAGGATAGAAACCAGTTTCTAAAAGCATTTTAAACATTTCAGCTTGTGTAT
TTCTTTTCACTTGTATTTTGTGATCTGCCTCCATGCCTTTCATGCCTTTCTCTTCAAACAATCTTATTACC
ACTAACCAAAAAACAATTAATTTGATTGTTTTGTTTTGTTTTTACATGTTGTTACAGTTAAGAAAAAAA
AATTCTAGGTATTGACCCCTGCCAGTTTTCGGAGTTAATATTAAGTGTGATTGGGGCTACATTTAAGT
GCTTTAAGCTATCCTACAAGCTTAAAGTAGTATACATGCAAATACTTAAATGAATTAGGTACAAGAATAC
AGAGGTAAGAAATAGAATCTATTGTAGAATAAATCCTATTTCAAATGTGACTGTTTAGGATTTGAATCA
ACCACATATTACAGAAAACCCCAAGATAAAGCCTTGGCATAACCAAGACAAAAGTTTATTTTTTTCTCTCA
CATAAAATTAGTCCAGACTTATTTTACCAGTGGTATGGCAACTCCACAGTCAAAGGGACCCAAGCTCATC
TGACCTTCGATTCCCTTATCCTGGGACAGGCTTACATTCTCAAGGTGCGACTCCTGGCCTAATGGGGCTAC
TGGAGCTTCAGCCATCACACTCTGTGCTTCTGTTATATCTACTGGTCAGAAGTTCAGATACATCTGTCT
AAAAGGAACGCTGAAAATACAATCTTTAAGCTGTGCAATTGTACCTGGAATAAATGAGTTCTTTTAATAA
AAAGAGTTGAATGGATATTTGGTGGGCAAATAGCAGTCCATGCTACAATAATAAACTTCACAATTTTAGA
ATTAGATATCTTGTAATGAATATTCTGACGTGGTGTCAACTTATACCATAGATAGATTATAACTTTGAAA
AGGAATTAGAACACAATAATAATAAATTCACACTAAGGCTCTTTTGGGAAAAAATCTCTACCATTTA
TTGAGTGTATTATCTTCACAACATCCCTATGAGTTAGGGACTATTTTTGTGGACATTTTACAGATAAA
GAAACAGAGGCATTGAGATGATAACTAGCTTGACTAAGGAGTGGCGGAGCTCTGGGCAGTGTGGTTCCTG
TGTGCCCATAAAGCCATTGCACAATGCTGCTTCATCATGTAATTCAGAAAGTATTCAGGATGTGGCAGT
TGGTCATCATGAATGTTTATTGTTATCTTGTGGCTTGTGAAAAATTCTGGTCATTCAAACGATTGACT
GTTGAGATTCTGTGCACATGAGATTGTACTGTGTACATGTTTCTAAAAATGTATGTTATAGATCAAAATG
CACACACTCATTTACCTCTAAGAACAGTTCTTATATTGAAGGGAATTTATCTGTACATGAGAGAACAACG
TGGTTTTGAGTACAAGTGGTGAACAGACATTGAATAGTTGTTTTAGAAAGCATCACTCCCCTGTACCTC
AGAACCCAGCCTCAGTGCTGGTTGCGAGCCAACAGCTTTGATGTCCTGAAGTTTTTGCATCACTTCTCTT
TTGCCCCCTCTTTGGGATTCAAAGATGATAAGTTTGAAGTGGAGTTCTACCGCTTCCATTGGAAGAGAAA
AGTTTCCGT
GGTGCTGCCATCAACAAGGAGAACAGAGTGGGATGAAGGGTTTGGGAAGCCAGGATGGGCATCTCTGACG
AGCTCCAGAACTCTCCACCTAAGTGTGCAAGTGTAAACACTCCCTGATGTGTGAACTGGCCATCTCAAGA
CTAAGTATTTAGCAGGAAATGCCCCCTATTCAACCTTGCCCTTCTCAGGTGTAGAGGTTGGGTTGTCTCT
TCCATCTTTGTTTGAATTATGTCATTAATCAACCTTAGTGAAAGATCACTTAGTCATTTGTGACAGCATA
AGTTCTTAATTGTTAGGAATCACTGGTGGGCACACATCTTTTCTATCCATGAACAACGTCAAATGCTT
ATTTTCTCATGAGCTTTTATTTTTTCTTTTAAAAAAGTTTCTTAGGATAAACACAGCCTTTTTCTCTG
TCTCTCCCTTGGCCTCTCATCTTTTCTCAATCTTTATATTCCTATATGTCACTGAAGAGTCCCCGTGCC
AACGCTGTGCAGTGGGAGGCTCCTACCTCCACCAGCTTTTGAGGAGGTTGTAGTCTGCAACCTTAGAGG
TTCCACAGCCAAGCTGGGGGTCTTCTGGAGCATGGGTGGTGAATCTGAGATCTATGCACCCAGGAAGCC
TGACACATTATTGTGGTGTCTCAATCTTTTTTTTTTAATTAGAAAAATTGTATCAAATTGCATTGGGTG
AGAGCAAAAATAAACTGAAGTTGGTTGAGCTTTGGAAGACTACAAGCCACTGTAATATTTAAGATTTCTT
GACCTCCAGAACTAACATTTGTCTGTGAGAGAAAATAATTACTCCTGTTGAGAATACATGCATTAAAGT
AAGATGTTCACTACTCTATATGATCACCACATTAATAATATGTTTTACACATGTATGTACTATGTGT
TCAAGTGTTTATAAATCCATGGAGCCAATAGAATGTAAGTTCTATGAGGGCAGAAATTTAATCCATTTT
GTTCTTAGAACAGTTCTGACACATACTGGTGTAGGGGTAGGTCTTCAGATTTTATGGATCAAATGGAA
TCTCCACACTTAAAAAACTTAGAGAAAACTGCCTTAATGTGCCCATAGTCTGGTTGGAAATGGCAGCT
CCAGGTTCAATTGATTGCTTTGTTTCAATTCGGCACTTTTCACTGGACATGCTATGAGCCAGCAGTGTCTG
GGTTTTTGGGATACACCAAGCCCTGCCCTCCCGGTGCTTAACATTCTAGTGGGGGAGACAGAAAGAAAGC
AAACATGGTGGACAACTTAATTATCTATTTTTGAAAGTTGACAGGAAGTGTGGACAAAAGAAAACAAGAG
CTGGAGACAGCAGTGCCAGGGCAGGGTGAAGGTGAAGTTAGAGTAAGCCTCATTGAGAGATCTTTGAGC
AACACCTGAAGGGGAGGTGAGAAAGTTAGCCATGTGGAGGGAACAGCATTCAGGCAAGTGGCCACCA
AGTGACAGTCTGACAGCAAGAGCAGTTCTGGAATATTCTAGAAACAGGAAGAAGACCAATGTGACTAG
AGCAGAGTGAAGGAGGAGTGAAGAGAAAATGTGATCAGGAAAGTAAGGTCCTGTGGCCACTAAGATTTGG
CTTTTATTCTGAAGGAAATGAGGACTCATTGCAGGACTTTGAGAGCATGATCTGACTTGTCAAGTGT
CTCTTTGTCTACTGGGTTGAGAAGACATCCAAAGGGGGCCAAAGATTGAGGCAGGGAGAGCAGCTAGGAC
AGGCTCTAGCAATCTAGGTGATAAATGAGGACCGATGGTGGCTCTGACAAGGGTGGTAATGGAGACATGG
TGAGGAGTGACCACATTTCAAATATATCTTGAGGTAGAGCTGACAGGATTTTCCCGATGGGCTGGCGTA

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GTATGTGAGAGAAAGAATTCAGTTATGGATGATTATTTTGTCTGAACAATGATAAAAGTTGAGTCAACA
ACTGATATGGGGAAGTCTACAGGTGGAACAAGTTTTTGGAGGAGGAAATCAGTTCAGTGTGGCTATGTTG
AATTTGAGATGTTTTTAGACCATCTGAGTGAGAGAAATCTGGAGTTTAGGAGAGAGGCTGGACTTGATATG
ATGTTATGGGTCCCTCAGCATAGAGATGATGAATGGGATTAGCAAAGTAGTGAGCGTAAAAAGGAAAGGGA
AGGAGACCAAAGATTGAGCCTTGGGACAGTCAAGAAAGAGAGGGAACCCGCAAAGGAGATTGAAATGG
AATCCATCTCACTGTGGCATCGTGAAAGACAAATGAAGATGGTATAAGATGAAAAAGTGATCAGCTGTAT
CAAATGCTGCTATTGGGTCAAGTAGGGTGAGAATTGATAATTTTCCATCTTGTCAAGAGCAGCCATGATA
GAGGGAGGGGGTGGAGATATACTTGAATGAGTTCATGAAAAATGGGAGGGAAGGGATTAGAAGCAGCA
AGTATAAGCAGCTCTTTCAAAGGAGGGAGATGGGGAATGGCTACTGGGATGCCATCACATAGATAGGAAG
GTGGAACCTGTGCACTGGAGGAGGGAGTGTCTCACAGAGGAGGACAGGCAGGAAGGTAGAGTGGGCTG
CTTTGGGCACATGTGCTTCTGTGGATGTTCTCTTTTGACAGCTTCAGTTCCTCAGGGAATTGGGAGCAAG
TTCATCAGCTGAGAGTGAACATGGGGCAGACAGTGTGAGAGGTCAAAGCGGCAAGAGTAGTTGTGCCACA
GTCTTTTAGGAGAGAGGGAAAGTAAATGGAATGGGGAAGGAAAGTAAATAGCATGGCTGCTGAGCTGCGT
TACAAGCCCCACCCGGTGTGGGTGTGAGGTGTAGTTGTGGGCTCTTCTTCAGTCGGATTGTCAGCATGG
GCAGCTGGCAGAGAGTTGAATCTGACAGGGCAGCAGTTCGGAAAATGAGTATGATGAGTCAAGAAAGGG
ACCAGGAAGTGGAACCTGTGTGTGAGGCAGTGATGCTGATGAATGACTGTGGAAAACAATGGAGGTGAGG
AGGGAGTGGATGTTGAGTGGCTAGGGGACAGTGAAAAGGGAGTAGGATCCACTAGCTTGCTGCTTGTCTC
TTATAATTAGGATCAAGAGCTTCTGCCATCTTCTAGGCATTCTGCTGCTTCAAGGGAGTCTCTGAGATTG
GGTCTGTCATGGATGTATTGAAACATGCACCTAGGTGTGTTTGGAGTCCTGCCAGAGACCTGCTTTCTCT
TTATTCTTATCCTGAGGCCCTTTAGGAGGCTCAGATGGAATAATTTTTATGGTTTCTTAAAACCCAAGTG
GGTTACCTAAGCCATCCTAGTTCGCCCCCTGTTCCCTGAGAGGACCACGGGAGCACCCCTGAAATGGGT
TTCCACTCTGCCATCCCCCACTTGCTGCTTGGGTGTTGACCTCAGCCATCTACACATATCCCGGATGTA
GTGTTGGGCCCCCTGGTTGATGTCATTCTTTTCAAATGGGATCTTTTACTACAGCAATCCAGCAACAAAC
TAAATAGCGATAGAGTTTTCTTTCCCTTACAAACCACAACCACAACCAAGGGAAAAACCAAACCAACCA
ACCAAACAAACAAACAAAGTATGTGGCTTCTTACCACAGCCCCCTATCTCGCCCAAGCCTTGTGGCTC
TTTGATCTCTGGTGTCTGAAATTGCGTAATCATGTGCTTGCTCTTTTTCATTTCATTGTGCTGGGCACAC
ACTTAATGGACCCTTTCAAGTTGGTTTTCTTTTATGGGGTAAGGGTAGGCAGGACTATTTTTTAAGATTT
CTTCCACTTTGTCTTCCAATTGTTCTAATGAGTTTTTTAAAATTGTGCCTGTCTGTTTTTAAATTCCAA
GAGATATTCTTTGTCTCTAAATGTTTCTTATAAATATATATAAATGAATAATATAAGCATATAGTTTT
GCATAGATTTGAGTTCGCTGTTACAGTGTCTTTTTATTTCTCTGAGGATATTCATTATAGGTTTTTTAAA
AAACACTTTTTCTGGTCCCCAAATTATCTCTCTCTCTAGACTTCCTCCATTTCATGCCTTCCTTCCCCC
TCCCTCCCTTCCCTTGTCTGCTCTTGATTTTGGAGGCTTGTCATAAATATTTGACCATCCATTTCATTT
TTTAACCATAACGAACTAAAAATGTTAATTGGAGCCCTGTGTGTTCCCTGAGCAGAATGTTTGGATTAAT
GAGCTTCCGTGCAATGTTTTCTCTGGAATGGATTAATTTCTCCAGATCTATAATTTTTCAATCTCTTTCC
AGGGGGTAAAAGCCTGATTGTCTGTTTCATGAAAGTAAAAATGTGGGTAAGAGTGATCCAGCATTCCAGA
ATGCAGACTTAGTAGCTGCTTGTTTTCTAGTCCCTGGGACTTCACCCACCCTCACCACAGTTGGTATCCCAA
AGTGTGAAACTCCTTAGATTATCTTTCTCAAGAAAATGAACTCAGATATTCGTGTCTTTGGCCATTTT
TGATTAGCTTATTTGTTTTCTTCCCTTTGAATTGTTTGAATTCCTTATGTATTTTGAATATTAACCCCTT
ATTAGATTTATGGTTTGCAAAATATTTCCCCCACTCTGTGGGTATCTTTTCACTTTGTCAATTGTTTAC
TTTGCTGTGCGGAAAGCTTTTTAGTTTTCATGCTATCAAACAAATTTGCTTTTGTGCTGCTGCAATTCAA
GGTTGTATCCAAAGAACTCATTGCCAGATCAATGTGATGGAGCATTCTCCTATGTTTTCTTCTGATAT
TTATATAGTTTTCAGTGCTTTTCTTTAAATTTTAAATCCATTTTGAATGGATTTTTTAAATAGGGCATAAGTGT
CACTTCCATTTTTTTATATGTGGATATCCAGTTTTCCCAACACCATTTATTAAGAGGCTGTCCGTCCC
TATTGTGTATTCTTGGCACTTTTGTGTAAATAAGATGATCTTACTTGTGTGGGTTTATTTCTGGGCCTT
CTAATCTGTTTCATTAATTCATGTGTCTGTTTTATGCCAGTATCACACTGCTTTGATTACAATAGCTTT
ATAATATATCTTGAAATCAGAGAGTTTGATGCCTCTAGCTTTGTTCTTTTTGCTCAAGATTGTTTTGGTT
AATTGGGGTCTTTTGTGGTTCCATACAGATTTAAAGATTATTTTTTCTATTTCTGTGAAAAATGGCATTG
GAAATTTGATAGGAAGTGCAATGAATCTGCAGATCACTTTGGATAGCATAGATTTTTTTTAAACAATAATA
ATTTTTCCACTCCATGAAGAGGTATACTTTTTTCATTTATTTTGTTTTTCTTCTATTTCTTTTATCTGTA
TTCTGTAGTTTTTAGTATTCAGGTGTTTCACCTCCTTGGTTGAATTTACCCCAAGTATTTTGTCTGTTGTT
GCTATTGTAAATGGAATTGTTTCTTAATTTCTCTTTGGATAATTCTTTATTATTATATAGAAAAGCTA
CAGATTTTTGCATGTTTATTTTGTATGCTTCAACTTTACTGCATTTGTTTATCAGTTTTTAAACAGTTTTT
TGATAAAAGTTTTGGTGTTTTCTGTATATATGATGATGTCATCAGCAAACAGAGACAATTTCAATTTCCCT
ATTTTCCCTCTTTTTTTTTTTTTTGGAGATGGAGTCTCACTCTGTCAACCAGGTTGGAGTGCAAGTGGTGGGAT
CTCCGCTCACTGCAAGCTCTGCCTCCTGGGTTCACACCATTCTCCTACCTCAGCCTCCCGTGTAGCTGGG
ACTACAGGTGCCCGCCACCACGCCAGCTAATTTTTTTGTATTTTTTAGTACAGACGGAATTTCACTGTGT
TAGCCAGGATGGTCTCGATCTCCTGACCTCGTGATCCACCCGCCCTCAGCCTTCCAAAGTGCTGGGATTAC
AGGCATGAGCCACCGCGCCCGGCCCTATTTTCTTAATCACGCGATATATACAGGCTTGTTGAAAAACAT
GAAAAATGGTAAAGAAGTTTATGTATTAAGAGGCAAAAGCTATGATGTTCAACTCCTCTAAAACCACTTCT
TAGTAGGTGAACATTGTTAAACAGTTTTGTGAATCTGCTTCCAGATTTTTTCTAGGCATGTTTCATACACA
TATACACACATAATTTATTTTTTACCAGTTGCGATCATGTATCATCTGATCCAAAACCTCGCTATTTTTCA
GTTAATATGCAGTGACTGTCTTTCCAAACCATAGTATATATATATATCTCTAAGAATTTTTTCAAATCTGC
TATAGTTTTTAAACATATTTATTGTTACATACATATGTGTATAAGTTACTTATTTGCTTATTTCTTTGAA
TATCTTTGTCTAGCTTTTGAATCACATAAATAATGAGTACAAATGGTAAACAAATTTTCATGTGGAAGGAT
ATATAGAAAAAGTACAAGTCTCTCTCTCATCCACTCTATCTCATTACCTAAAAGGTTATCCTTAGAGCT
TTATATAATACACCCCTGAAGTTTAGATCATTTTATTGCCTCCCAATTGTTGAGAGTAAGGAATTTAGTA
CATATACCTTTCCCTTTCACTTTTCTACCTCTACCTACTTAATGAGTTCGATTATAGTTTTTTCAGTTCAC
CCACTGTTAAATAATATACCTATATTTATAATATACCTATATAATATACCTATAATAAACCTATATTTTT
GACTTATCAACTTTGGACATATCTATTGGTGACTTGTGATGAGAGATGAAATAATTTGTACATTTACCCT
TCTTTTCCATTCTTTTCCCCTACCCATTCTCCCCTTTTTGGCTAAATGATTGCTTTTAGGTTGATAAGGT
TTATAATAGCTACTGTTCTGTGGTTAATAAAATTTGTTTCATATTTTATGTGAAATTTGATTATACAACT

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[illegible]

AAGGCCAAGCTTAGATGCTATTATGTCTATGACATTCTCCACCTCTATCCCAATAAAAACCTTTGATTTT
ATCTTGCTGTTTGTATCTTTACTCTGGTATATTTACCCATACCCAGAGTTGTTTGTGGACATGCCTGATT
TCCTTCAGGCTGTAGGCATATTTGATTCAATTTTTGTACTCCATGAGTGCCTAACATAGCATCTTATACAC
CATAGATAATTAATAGATGCCTCTTGCTGCATTTGTATTAAATTTTTTACCATGTACTTGTCTAGCTAG
CAGAGACTTGGGGGGAAATAATGATGACTGATTTTTACTTTATTTATTTTATTTTATTTCCCATAGGTTTT
TGAGGAACAGGTGGTGTGTTTACATGAATAAGTTCTTTAGTGGTGATTTCTGAGATTTTGGTGCATCC
ATCACACGAGCGGTGTACACTGTATCTAGTTTGTAAATTTTTTATCCCTCACTCCTTTCCCTCCCTTTCT
CCCGAGTCCCCAAAGTCCATTGTATCATTCTTATGCCTTTACATACCCATAGCTTAGCTCCCCTTATGA
GTGAGAATATATGATGTATGGTTTTTCATTCCCAAGTTACTTCACTTTGAATAGTGGTCTCCAATTCCAT
CCAGAACCCTCAAAACCATGCAAAACCATGGAAACAAACAGCCTGCTCCTGAATGATCATTAAAGTCAAC
AATGAAATCAAGAGAGAAATTTAAAAATTCTTTGAGCTGAATGATAATAGCGATACAACCTACCAAAACC
TCTGGGATACAGCAAAAGCAGTGTCAAGAGGAAAGTTCATAGCATTAAATACCTACATCAAAAAGTCTGA
AAGAGCACAAATAGACAATCTAAGGTCACACCTCAGAGAAGTGGGAAACAAGAACAAATCAAACCCAAA
CCCAGCAGAAGGAAAGAAATAACGAAGATCAGAGCAGAATAAATGAAATTGAAACAAACAACAATA
AAAAAGATAAATGAAACAAAAGGCTGTTTTTTTGAAGATAAATAAATGGATATAACACTAGTGAGAT
TAACCAGGAAGAGAGAGGATCCAAATAAGCTCAATTAGAAACGAAACAGAAGCTATTATAATCAATACCA
CAGAAATACAAAAGATATTAGAAGCTACTATGAACATCTTTACACACATAAACTAGAAAACCTAAAGGAG
ATGGATAAATTCCTGGAAATATACAACCTCCTAGGTTAAGCCAGAAAGAATTAGAACTCTAAACAGAC
CAATAGCAAGCAGCGAGATTGAAATGATAATAAAAAAATTGCCAACAAAAAAGTCCAGGACCACACAG
ATTCACAGCTAAATTTGTATCAGACATTCAAAGAAAAATTGATACCAATCCTACTGAACTATTCCACAAG
ACAGAGAAAGAGGGAATCCTCCCTAAATCATTTTTATGAAGCCAGTATCACCTAATACCAAAACCAGGAA
AGGACATAACAAAAAAGAAAACTACAGCCCCAATATCCCTGATAAATATAGATGCAAAAATCCTTAACAAA
ATACTAGCTAAGTGAATCCAACAGCATATCAAAAAGATAATCAACTATGATCAGGTGGGTTTTCATACCAG
GGATGCAGGGATGGTTTTAACATTCAAGTCAATAAATGTGATACACCACATGAATAGAATTA AAAACAA
AAATCACATGAGCATCTCAATAGATGCAGAAAAAGCATTTGACAAAACCTAGCATCCAATTATGACAATT
TTTTAAATATGGGGAATGGTCTTCATGGAAAAGTAGATGTTAATGGCACCTGTATTAGGGTTCTCTAGAGG
GACAGAATAATAGGATAGATGTATATATAAAGGGAGTTTTATTAAGAAGTATTGACTCACACGATCACA
AGGTTGGGTTCACAATAGGCCGTCTGCAAGCTGAAGAGCAAGGAAGCCAGTCCAAGTCCCAAAACCTCA
AAAGCAGGGAAGCCAAAAGTGCAGCCTTCAGTCTGTGGTTGAAGGTATAAGAGTCCCAAAGCTGAAGAAC
TTCACGTCAGAAATTCGAGGGCAGGAAGCATCCAGCATGGGAGAAAGATGTAGGCCAGAAGACTAAACCA
GTCTAGTCTTTCCATGTTCTTCTGCCTGCTTTTTATTCTGGCCATGCTGGCAGCTGATTAGATGGTGCCCA
CCCAGATTGAGGGCGGGTCTGCCTTTCCAGCTCACTGACTCAAATGTTAATCTCCTTTGGCAACATCCT
CACAGATACACCAGGAGCAATACTTTGCATCCTTCAATCCAATCAAGTTGACATTACATATTAATCATC
ACAGCAACCAAAAGATTATCTCATTAAATCCTTACAATAGCTCTGTGTAGTGGGTATATATTTTCTTTT
GCTGAAGAGGAAGTAGGCTTAGAGGGGTGAGTAATTTGCCAGAATAACCTAGGTAGTAGAAGATACTAG
AGCCATTATATTCTGTCTGCATTCAAAGAGTGTGCTGCTTTATTTGTTCTCTGAATTGCACACAAGCTAA
AGAATACAACCTGGATGTTCTAGTCTACTCCTATTTTGATAACTTGGCTAACTTTACTGCAGAGTCTGCAGA
GGTGACCAATTTTACTCTGGGAGATACCAGGGAATCCGCCATGTAATTCCTCAGGCTGAGTGTTTTGAA
ACACAAAGCTGTCAGTCTATTAAAGTGATGTTTTTCTGAGAGTCTACTATGCTCCAGTACCAGCCTC
CGCAGGCCCTCTGTCTACCCCTTTTCTGCTCTGATGTGTTCTAGCAGGCACTGAGAAAGTCATTGTAGAA
GTTACCATGACTTTCCAAATGCTTCCAGAAGCAGAACACAATTTACAGGAGGGCCAATAAGTATGAATG
CCACCTTGATAGAAAGTGAAGTTTTGCGTCTGTTGAACACTCAGTAAATGCTTCCTGAATAGATGCAGG
ATTGGCAAAACATAGCTCCCCAGCTTTCATAATTCAGACTCAGAGGCCCTTCGTGCTCCTGTTATTCTTG
TTACTTCATGTCAGGTACCTAAAAGGGTTGTTTTTCAGTTTTCGTCATTGATTTAAAGCAGAGGTTAGTA
AACTTTTTCTGTAAAGGCCAGGTAGTTAGTATTTTAGCCTTTGTGAGTATTTGGTCTCACAAAAGCAGCC
ATAGATGATATGTAAATGAATGTGCATGGCTGTGATCTGATAAACTTTATTTAAAAATGAGGGGTCATC
TGGGCTGTGGTTTTTCAACCCCTGATTTAAACAAAAACAAATGTGCTATGCCTGTTAGATGCTACTAC
ATTTGATTCGTGTTTTCCATATTTTCTAAAATGTACTGAACAGGAAATGAACAACTGATGACACAAT
GATCTAATTTAATCATTGAGATAAGAGTGGCGCCAACCTCTTATTGAGTATTTGTTATGTGTGAGGCACTT
GGCTAAGCACTTTACATGTTTTCTATGATTTATAAAGCAAATATTGTTATTATCTTCATTTTTTTGCTGA
GGGAAGGAATAAAGTCACAGCCAGCTTACAGAGGCTGCCGGAGGTCACACATCACCACTGAGGAAACA
CGTGGTCTGATTACAGGATCCATGATCTCCTGTACAGATCATAGTGATATTGACCTGAGAGGAAAGAGCC
TAGGACTTACAATCAGAAATCTGGGTTCACTTTCACTCCGTTCATGCCAAATTACATTA AAACCTGGG
CCTCACCTTTCCACCTGTGAAAGAGGAATAATACTAGGACTTGCCCTCCCAACCTTAGAGATTGCTGTG
AGGATAAAAGCCTATATGAATGTGCTTTATAAACTATAAACACCATACAAATGTTTGTATAAGTCTGCC
ATTTGAATACATCTTAGTCTTTTTTCCCTATGTGAAATAAAACATTTTAAGACAAGCAATGAAATTCCTG
AAACTATAACAGGTTTTTAAGGGTGTGATCCCCAAAGCCGTCTTCACTATTTTGCTCCCTCTCTGACTC
GCTCTGTCTCTGCCTAGCAGCGCTAGTCTTTTCTACGTGTTTGATCTGTTGTTTCTGTGTTTAGGCCCAT
CCCTACTACACAGCGGAAGTCAGCTATTTTTTCTCTTTTCTTTGCTCTGCTGAGCAAGATTAAACTCTTT
TCACCTGGACTTTTCTTAGATTACTCAGGCTGGGTGGAAATGGGGTAGCTGTGAGGCTGGGATGTTACTG
TACAATTCAAATTTATGATCTGAACTTAACTAGATCTTGCTGAAGATTGACCTGGCTAGCACAGTTTTGA
GGCACCTATCTTTCAGTCCCTTCTGTCTCTTGGCCTGGCCACTGGCCACATGTTAGTAGCTTACTTCTA
AGGATGGAATGCCATGCATCTCCTACAAGGTTGTCTCTATGCTTCACACAAAGTAAAAGAATGGAGGCAA
CTTTGAATGCTGCTCATTTTCACTCAGGCAATCCCTTTACAATATTGTGCTTAGTAAACTCCCCCACTC
TTTTTTTCCCTTAGCTTGTTTTTTTTTCTAATAAAAGTCTATATCAATTTGATGTATTAGTTAGGGTTC
TCTGGAGAAACAGAACCAGTAGGATCAATTGATTGGTCAATCAATCAATCAAGACAAAAGAGATTTCATC
TGGAAGGAGTTGATTTCATGCCATTGCGGTCAATTGGCTAGTCTGAAATCTGTAAGGCAGGCTGGCTGACTG
GAAGCTCAGGCGGGATTTCTCTGCTGCAGTCTCAAGGCAGAATTCGTCCTCTTGGGGAAACCTCAGTCT
TTGCTCTTAAAGCTTTCAATTGATTGGATGAGGCCTACACACATTATGGAGAATAATCTGTTTTACTTAA
AGTCTACTGATTGTAAACATTAATTATATTTAAAAAGTACTTTACAGCAACATTTAGACTAGTGTGGA
CCAACAACCTGGGCACCACGGTCAAGCCAAGTTGGCATATAGAATTAGCCAGCAAACTTGGTATTCACAAT

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CTGTCATTATAGTCTTGTCTATAAACCTAAGGTTTAGAGAAACGCTGGTCATTCTGAACAATTCCTGTG
AATGCAGAGATCAAGGAGCCTCCCCTTAAGTGGGTAGGCAGTGTGAAATACCTGCAGTGTGCTTGACCTT
ACTGTTACCCACTGGCAGCTGTTCTACAGCTTGGCTTCAGATATATAATATTACATTGGCTAACTTCA
AAGAGCATTGTTTTCCAAGGATAGAGATGGTGATGGTGTATATTACTTTTACCAGCCCCAGACCTGTAAG
AGGTTCTCATCTCTTTTGTGTTAAGATTTTGTGTTTTTTTTTAAATGCTCAATAAAAGAAGCTTTATTCTT
TCATTAATAAAACAAATCTCAGAAGAACAGGGAAGAAGAGGGTAGCCTATGAAAGTGTGATTGTTATTTGA
TACCATCGTGACTTAGCTTGTGTTTACCTAAGACTCTGAGATTCTATTCTGTTTATGTGAGATTTGGGCT
GAGTTCAACTACTATCCATATTAAGTGAATCATAAAACAATTAATCCATCATCTGGTTACATTTTGGTGG
GGAGGGAGCATTAAACACAACACTAAGCCACATATTTCACTATTTTTTTTTTTTGCAGCAAATTGACTTA
ACTGCTTGCTTTCACACCATGCCTATAAAACCTTTTTGGTTTTAGAGGTTCTATGTGTCTGGAAAGTACA
GTGAAGTATCTCATCAGAATAGTATTAATATTTCTTATGACATTTTCATATGTCCTGATATGGGTTAATGG
AGAAATATCATAAGAGTAGTAATTCTCTTGCTGTTATTATTTGTCCTATTTAGACAAACAGAACATAGAA
TTAATAAGAATTCAAAAACCTTTAATCACTGATAGAGATTAAATGATGTTTATATTAGTCATCATCACCTA
ATATCTTAAATATTTAACCTTTTATGCAGTGTGTCCTCTCTACTTGGGTATGCCCTTAACAGTAAAAAG
TGTTGATAATGCTCTCCCTTTTGGCACTCACAGAATTGCTATACATATATATGTATAAAATATATGTAAA
TATAAAAATACATAGTTAAAAAATAAATCTACCCTAAATATAGTAAGGGAGTTTTAACTGAGGTTTT
TGAAGTCTTTAAGAATTTATTTAGAGACTTCTTTTGTGGAAGTATGGTGGCTAGATGCCATGAAAAACC
CACTGAAAAACAAGTGTAAGTGCTAGGTAATATGTTGAAACATATCTTTTGAATGTATTACTGAGCTGGC
AAGAAAGTATGCCATTGTAGAGAGTGAATAAGTGAAGGCAGAATCCTGGGAGGTAAGCCAGCCTGAAG
ATATTGATGACACTGGATGGCCTTAAGTTTCCATTTTGAAGTGGCATGTAATCCAGCCAAAGATTCCACA
GAAATCCGAGGTTCCAAATGGTAAATCCGTGGTGACATTGGGGTGACCGAGAAATGAAGTCTGTGTAGAA
AGGAATGGTAACAACACTTGTCTCGTACAACCTTTGGCTCTGGGTAGGGGAAAGGAAACAGCTTCCTAGA
GAAATGTTAACCACAAGCTAGCCCTCATGAGAGATTTAGCTAGGATGGATGCTATCTGTGTAGTGCAAA
AAAAAATAAATAAATCCATAGCCAGATTTTGTGCTTTAATGTGGACCTAGGTCAATAGTGAAGTGCAAA
GCCAGAAGCAGTGGCTCACCCCTGTAATCCCAGCACTTTGGGAGGCCGAAGGAGGTGGATCGCTTGAGGT
CAGGAGTTTCGAGACCAGCCTGGCCAACATGGTGAACCCCTATATCTACTAAAAATACAAAAATGAGCCTA
GAGTGGTGGTGGGTGCCTGTATTCCCAGCTACTTGGGAGGCTGAGGCACAAGAATTGCTTGAACCCAGGA
GGCGGAGGTTGCAGTGAGCCAAAATCGCACCCTGCATTCTAGCCTGGGCAACAGAGTGAGACACCATCT
CAAAAAATAATAATAAAAAAAGTGACTGCAGGGGACTGGGAAGAGGAAACACAAATCTTTACTGGGG
AATGGAATTTCAAGTGTATGCACCAACCCCTTAGAAATCACAAAACATCTGACCCTTCTGAAAATAACCAC
CATGAGTGAGACAGCAGGAAAAAATAAAGAAAAAATAAAGGAAAGAGAGGGACAATAGAAT
CAGACTCATACCTACAAAACCTTAAAAATTAATAAAATGAATCAGACTCAGAGGCTTCAGAGTTTGATTT
AAATACATTATACAAAAGTTCTGTGTGAAATATGTTTAAAGATGTAGAAGGGTGCTTGAAATGCACAAAGT
CAACAGCTGAAAAATTGACCAAGCAGATATGAAAATAAATCCAATAGAGGGCATCTGGAATAAAAAAG
TATAATAATTATAGTGAAAAAGTTATTAGATGGGTTAATTAGTAGAATGGATATAGCAGAAGAAAGATT
TAGTCAACTGAAAAATATATCCAAAGAATAGGTCCAGAATTAAGCTTAGGGAGATAAAGAGATGGTCAAT
ACGAACATTAGGAGACATGGAGAACAGTGTACGAAGGTGTAATAAATTCTAAGTGGAGTTAAAGAGGAGA
TAGTAAAGAGGAAGAAAAACACAAAACCTCAAAAAATGTAGTGGCTGAGAATCTCCAGAAGTATTGAAA
GACACCAATCCACAGATTTCAGAAACCTACAATTTGCAAGAAAAAGTAAAAAGAATTTACACCAAGATCC
ATCTTCATGGACTGGCAGAGCATAAGAGATGAAGAGCTTATCTTGAAAATGCAGCCAGAGAGAAAAGGTC
TATCGCAGTTAAAGGAAGAGGCAAGCAGATGACTGAGTTCTCAATGCCAACTGAAAATGAGAAGCCAGTG
GCACACCTTCAATATGTTGGGAGAATATAATTTTCAACTTAAATAGTGTACATTGTAAAATTACATTTT
AAAAAAGAGGGTAGTATAATGACATTATCAAAATAAAACCATTCTTATAACAAATATCACTAAAGAAA
CTGTTGGAGGATGAGTTTGGTTTCTAGAAAGGATGTCTGATATGCAAGAAAGAATGGTAAGTCAAATA
TTGAGAAATATGTGAGGAAATAGAAACAAGAATAACTAATGAATCAATGATACTGTCTAATTTGAAGGTT
AAATGATTAGGTAGAACTAAATATGAAACAATAATAGTATGTAAGTCGGGAGGAGGAGGATGAAGCTTG
AAGTGCTCTATGCATCTTGCATCTCTGGTGTCTTTCTTGTGTCCAAACCTTTTCTTCTTTCAAGGACACC
AGTTAGACTAGATTAGGGTCCACCTAATGACCTCATTTTAACTTATTTGCCCTTTTAAAGGTTCTATCTC
CAAATACGGTCCCATTTTGGGCACTAGGGGTTAGGGTTTCAACGTATAAATTTTGGGGGGACACATTCC
AGCCGATAGCAATTATAAATACAACCTTTTATAGTAAAAGCCCATCTTCTAGAACAGGTAGAGAACAAGGT
TACTTATTTTTTTTAAAGAACAAATTGGTTTAAATTATCCTAAAATGATTTTAGGAGAAAATGGACATTA
AATATACAACATTTCCCTCCTTTATTATTTTATTGATGACTTGATATGTTTTTAAACTCAGTAAATAA
ATGATTAGTCTCATAATCATAAGAGAGTTATGCCCTTATTTTAAATGCCATAAACTGTGACTTCTGAAGA
AATACAATCATATAAAATCATATTTTAAATTTACTTTTGAAGATGTACAGTAACTCAGGAAGGCAGAGTGT
GGAACCTGCTTTAATGAATAGATAAGAATGACTAGCAATTAATAATTAATATCTATAATTCTTCTGAAG
TTCTTGAAAATAATCTCTTCTAACCTGGGTAAATATTCCTCCTTTTTCAGAAATGTTTGCAATGTTGCTTT
TTTTTAAATTAATCTCTTTTCTTAGATAATGGAACATAAATCTTAGGCACATTTGCTTTGTAAATACCA
AATTGCACACAGATTAAAATTTAATGAGCTTTTACTGCTGTAATCTCAACAAGCAGAGTCTTTGCTGTTG
GTTTTTCAATAAGAAATACCTTATTTTGTATACAGTGGTCATTAAGAACCTTAAAGATAATCAGGACAG
ATTTTCCAAATGCATAATGCTATTGCCTAGCTATTTGCATGTATTTTTTTTAAATGACAAGACATTTTCG
TTAAATATTTACTTGCCTGACGTTGAAAGATTTAGACAAACAATGTACTTCTAGTTGTCACTTTTTTCAA
AAGATTCTTAGGGAAAAGTTAGCCGTTTTGTTGGTTGGTAAGTGTGAGGTTTTCTTGGAACGTGTTGCTT
GCTAATTTTACCAGAGAAGAAAATAAATTCAAATGGTAAGCTACATTCCAATTTGTATTCTTCTCTAAA
GTCCTCCCTGTTTGCAATTCTCGGATTTTGACACTCCTACACACCAGTTAAAGCACTTGTAGAGTGTCCA
AAAAATTGTTGCAATTAATTTCCCAGTCTCTTCTCTCTTTGATGTGTCACTATAATGCTTTGAGTAATTT
TCAGTGTCTGGCATCTGTTCAAGGACAATTTCTGGATTTTAGGAGGGGGAGAAGCAATAAAGGAAACAAC
ATATGTTTTTTTCCATAATAGGAGGCATTTTTTGTGTTGTTGTTTGAACAAAAATCGAAAACCTTCTTTTC
TATATAGGTGACAAAAAGATACACGACTCATTGGTTGTTAACTACCATTGCATCTTTTCTCTTTGGAGT
AGCCCTTAAGGACCAGATTAGACCAGCCATCTGCATCATGTAGCATGTCTGGGTTACCTTTCCCAAAGA
AGTTTCAGATAGATGAACCTTGCAAACCAGAGCCATCTGAAGTTTGTGTTTTTCTTTTGGAGACAGAGTCTC
ATTCTGTTGCCAGGCTGGAGTGCTGTGGTGCAATCTCAGCTCAATGCAACCTCCGCCTCCGGGTTCAA

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CGGATTCTCCTGCCTCAACCTCCCAAGCAGCTGGGACTACAGGCACGTGCCACCACGTCCAGCTAATTTT
TGTATTTTTTAGTAGAGACAGGGTTTCAGCATATTGGCCAGGCTGGTCTCAAACCTCCTGACCTTGTGGTCC
ACCCGTTTTGGCCTCTCAAAGTGCTGGGATTATAGGCATAAGCCACCACGCCAGTCCATCTGAAGTTTT
AAAATGGCTGCAGGTATCTTAGTAGGAGACTAATTTTATTTTCCAATGATTAGAAAAAATGACCAGACC
AAGAACTCTAGGGTTATGTTTCATCTCATATCCTGTGCAGGATGTTCTGAGAAGTTTCTATTTGTATCTG
TGGAGTGGTTCTAGTCTTGTTCATCTTGCATTTTAAGGTTTGGAGGTATTTTATCTTGCCTTGCTTCTTT
ACCACCTTGCTTTAATTTCCCCCTATATTGCCATTTCTAAAGTAATGACTCATTTTCAAGGGTGGGTCTG
AAAGGAAAGAAATAATAAAACCAGAGATCTGGAGCAGTTTCTCGTTCATGGTCTTATTCACTTTTTAATA
AGAGCATCTAGAACAGTGAGTGGTGCCCCAGCAGATATCTGGAAATTTTTGTGGAATTGAATTGAATTTG
TTCTTAGAATAAATGACAATAAAGAAAATAGTATTATGGAACTTTTCGACCCAAGGGAAATATCAAGGCT
AAAGTTGCTATATTCTTTTCTTCTGATGGATGCTGAGTTTTTCTCCTTAAAAAACAAATCCACATTTAA
ACATAAGGCATTGTTTGATGGCCTATCACATTCAGTAGAATGGATTTGAGAAATACGTGTAGGATGCCTA
TAAAAACTCTGTTTTGAAATTAAACCTAAGACTATAAGATTGTCTGTTTAAAAAAATTATTGCTGCTGT
AATTTGAGCAAATCTGAACATATTTGAACCTTAGAAATCAAATGTATGCAATCTTGTAATATAACTTAC
TCCATCGGTAGACATAGTTCTTTGTCCCACCTGGCTTCCAGCAGTTTGTCTGTCTGTCTATTAGGCTAAAC
TCTTCATGTTCTTAAACATATTTTCTCCTAAAAGGGGACATATTTCTTGGGTGAGATGTAAACATCAAGCT
AAGGAGTTCTGCTGTGCGTCTAGACAAATAAGGTTTCAATTTTCTCCTCTACATAGTTTAACTTGAATT
TAAGATCACACAGATTCTTTTACACGTTACCAATGTAATGATATAGACAATCTCACTTTATTCATTCACT
CTGTTTAATTCATTCAATAAAAAACGTATACATTGGCTGCCACTGTGTGCCAGTTGGTGAAGATATAAAG
ATGATTAAGGCAAGGGTCTGTGCTGACATGCCTAATGGGCAGGCTGACACACCTAAACGCCAGGGAAAAA
GAGGGATGAGACCTGGGCCTCTGAAGCCCTGGCCACCTGGCTCGAAGCTCACTTTAATGTGCTTCTGGGT
GTATTCATGACTTTTTTAAAGGCGCTTATGTTTCTTCTGGTAAAGCATGTTTAAACATGCAAAATGCTT
ATTTTCAATGAGTAGCTTTTTTAAAGTGTTTATAGAAATGTCTAGAACAGTGCTTGTCTAATAGAAGTATAA
TTCAGGTCACGTAGGTAATATTAAATTTTCTAGTAGCCACATTAAGAAAGTAAAGCAACAGGCAAAGTT
AATATTTTTTTTTTCTGAGATGGAGTCTTGTCTTGTACCCAGGCTGGAATGCAGTGGTGTGATCTCG
GCTCACTGCAAGCTCCGCTCCCGGGTTCAAGCCAGTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGACTA
TAGGCGCCCCGCCACCACACCTGGCTAATTTTTTGTATTTTTTAGTAGAGACGGGGTTTACCCTGTTATCC
AGGATGGTTCGTTAATTTTAAATAATATATTCAATTTTTTAAATAATATATTCAATTTAGTCTATATAAAAA
AATTAGCATTTCAACATGTAATCAATAGAATATATTATTAGTCAACTATTTTGCATTCTTTGTTTTGTAC
CATCTTTGAATTTCAATTTGTATTTTATACTTACAGTGCATCTCAATTTTAAATGCTAAATGTCATCGGAG
ATATTCGATCTCTGTTTAGCTTTAATATATTTTTTGGGTTGAAAAAGTAAATTCACATAACCAAGTTCTTC
CAAATATACTTGAAAGTGTTTCTGATAACTGAGTTATCAACTTAAAAATGTAAGTTAATGACAATAAATG
AAAGAAAAATTCTGTTCTTAGCTGCACTGACCACATTTTAGTGTTCAATAGTCGCAGGTGGCCAGTGGC
TATCATATTGGATAGTACAGCTTTAGAATGACAGTTCAGTGCAACAAGTGCTATAATAGACTCATGAACT
GGAAGCTCCGGGAAGTTAAGAATGGGATCAATGAAGTGGGTCTTGAAAAACCAATAAAAAATTCACCACGT
AGAGAGGAGGAGGGCGACTACTCCAATTCAATCTTTGAAAGCATGTGAAGGAGCAACAGTAGACTTCTT
TAATTATTTAATAGTAATTTATTGAACATGAATTATGGGAGGTGCATGGTGTGGGTGCTGGTGAGACATA
GTTCTTGAGCTCAAGTAGCTTGGTGTCTAAATATTCAATGGGCCATTTTTTTCAGAAAGGATGGATATGTGT
GTGATCCTGGGTGTGCCAAATGCTGTGGCTTCTGAAGCTTAGATTTCCAGCTTGTACCTTCAAGGTTA
CCTTGTGAATAGGACTTTTTTGAGCTGTAAGTAAATTTACTTTGCCTATTTATTTCCAATGGAAAAAAG
CTTTTTTAAAAATAAATCTCATCTTATTGCCTATGATTGGCCAAGACAACATGGCCCATACAGAAGGTT
TTTGATGGCTTCTGAGGTCTGTTATCATTTGCTTATTGGCATTTTCACTGTCAACCAGGGTTCTGTCAA
TTCCATTCTGCTTTAGCTCTTTTACTTGAATACCTGGGGCAATGGCAGAAGTGGTTGCTATTTGTAC
CTTTCCAGGATGTTAGTCGTGCTTGTAGACAAATAGAAAATTTAAAGTCAGATGACTTGATTCTCTGC
CAGTTAAGACCCTTAGAGAGTCTCAGCATGTTGCTTATTTTTAAATTTCAAGTCCCTGGTAAGGATCAA
GTAAACTCCCCAATTTGCAGATTTCTATCCAGTTGACTATGGATTTTGCCTGTTGCTTTGTTTCCACCAA
CTCTCCCTGAAGATGAGGCGCACAGACAGACAACCTCACAGGCAAGAACAGCCTGGTCCATCTTGAAAGAT
TCTCAAGACTATTCTCCACAAGATAATTGTCTACTTTTAAAAATATTAGTAAAGGGAATTTTTGCTGTT
ATCCTTGGTTGTGTTTTTAGTATCTCATCATCCTTCTAGTTGTAGGAGGCTTTTCCCTAACATCTAACCCA
TATGTCTGTTGTCTCATCAGGTGTTTCTATTAAAGGCTACTTCCCCATCAATCTTAATTTTTTTTTTAATC
TTCTGAGATGTATAGGTTAAGTTGAAATCAGAGACTTTCATAAAATGGTAAGATGGCCATTTAAATGCAA
CTATGAGGAAATAATGTAAGCAGGATTCCATTGGAGAACCAACACTAGCAACAACCTAAGTTGGTAATCA
ATGTTGGGACTTGAAGTTAGGCTAAAATCAATAGTAATGGCACTCGTATGTACAAATGCAGAACTTTTTA
CACACAATGATTTTTCCCTCTGTTATTATACACTAGCTGTGTCTGAGTAGACAGTCCAGCTCCACTACCT
GCAGTCCACCCTGGGCTGTGTAATCTGAGCACTGATGGGCTGTTATTTGTACGTATTACTTCTATGACAC
TGTTTTTTTTCATCTGTGTTAGAAATGTCTTTCTTTCTTGAATAAGCTGCTTCAATTTCTTATAGACAGATT
CTGCTTTTATGACCCCTGTTTCTACAAAGTAATCTCTACTCATGCTGAAATCTCAGACAATTTTAACAAA
TATTTAGAGTACTTAATTTTTCTTTGAATTCTAAATATTATCCTTCTTTAGTTTACCATAGTTGGATATT
TTGAGATAACTGTGGAGGAAACAGCACTGATCCTGGGGCCATGAAACCTGATTTCAAGATCTAGTCCCTT
CTTTAATTTTGCACAACATAATTTAATCACATTCATCCTTAATTTTATCATCATTTAAATAGCAGAGAATA
ATTCCTCGTTTTCATGGAGTTGATATGCAATGAAATAGCATATCAATGTATGTATGAATGTCCCCCACATA
GAGTACTACACAAATGAAACGTGTCACTCAGCATAACGTTATGTGCTCCTTCTGCAACTGGATTGCACT
CCAGTGGGATTTTATGCTGGTGAGATGGCTGTGCTGCTGGACTTTCATGGGACACCAATCTTTGAAAATAA
GCCTGATCTGGCTGGGCGTGGTGGCTTATGCCTGTAATCCCAGCACTGTGGGAGGCTGAGACGGGCGGAT
CACCTGAAGTCAGGAGTTTGGAGACCAGCCTGGCCAACATGGTGAAATCCTATCTCTACTAAAAATACAAA
AAAATTAGCTGGGCATGGTGGCATGTGCCTGTAATCCCAGCTACTTGGGAGGCTGAGGCAGGAGAATCAC
TTGAACCCAGGAGATGAAGACTGTAGTGAGCCGAGATTGCGCCACTGCACTCTAGCTGGGGCAACAGAGT
GAGACTCTGTCTCAAAAAAAAAAAAAAAAAAATAGCCTCTAACAAAAAAAAAAAAAGAAAAAGAAAAATAA
ACCTGATCTATAGATGAGGCCAGTGGATCTTGTGAAGAGTTGAAAGGTGAGGTATCAGTCTTATACCATG
TCGGATGGGGCAATCGTCATAACTTTTTAAAAAATTATTTATTTTATTTTATTTTATTTTATTTTATTTT
CCCCAGGCTGGAGTGAGTGGCATGTTTTCGGCTCACTGCAACCTCCGCTCCTGCGTTCAAGCGATTCT

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CATGCCTCGGCCTCCCTAGTAACTGGATTACAGGTGTGTGCCACCATCCCTGGCTAATTTTTTTGTATTTT
TAGTATAGACAGGGTTTCACCATGTTGGCCCAGGCTGGTCTCGAACTCCTGACCTCAGGTGATCCACCTG
CCTCAGCCTCCCAAAGTGCTGGGATTACAGGTGTGAGCCACCGTGCTGCCCAATTGTTACAGCTTTTT
AAGTGGATTATATGCCTGCTTCAGGCATTAGACATAATAAGTTAATCTGTTGATAAGTTTCTTCATTTCT
TAATTTTCAGTTGTGTTTTGATGTGTGTGGTCTGGGTGAGCGGCTCAGTGCTGCTGCTGTGGAGAAGGCA
TGATATGGAAGGGATGTGACTGTCCTTCTTCATCTTCATAACGGGGCCAGGACTGGGGTGAGGTGTGTGA
GATGAATGAAGCACTGGTTTTGATACAAAATTTAAGAAAAATCAAATTCAGAGGTAATATTTTAATACG
ATATTTGTAAAAAATCAAATTAGTGCAAAAATTTGTGATGAGCAAAATGTTAGATAAAGGCATTGTTGC
TTTTCTTTTTCTGTGTATTGTAACACACCATCACTTAGTGGAGAAACAGCTCTCACTTTCCTCCTCCCA
GATACAACCATTTATGTTGAATTAACTTCTAGTTCTCCTATACCTGTGAGCATCCCCAGGCCCCCTGG
TATGGAGAAAGCAGTTTATTTGTCTTAGTAAGATTATAAAAGTGGCAATAAAATGTGAATGTAATGAACA
AAATGCACATTTTGTGGACCAACTCGTTGTTTTAGATCTATTTTTGAAAACCTATTAGGTATGTGCATGA
GGCAAAATAATTCAAGTGCAGTTGGATATTAAATGAAAAAGTGTGAGGTCCCCCTTTCTGCCATATTCTC
TTCTGTGTCTTCATTAGTGGAACCATTTTGACCAGTTCTTATAATTCTAATGATTGCTGATGGCTCTA
ATTCTTGGTTTTATCAACTTCAAGCAGAATGTCTTGACATCTTGGTATGAAAGTTAAAGAATATGAATCAT
TTGTTCTCTCCCTTCTCCTTTCTCTCTGCTCTCAGTTTTTGTGTTGATGCTCACGGAGTATGTGT
GTGAGCATGTGTGTGTGTGTGTGTGCACGCGAGCACGTGTGTGTGTGTGCGCGCCCATGGGTCCATTTTT
GCATGGCAGGCTTTGTTTTAGAAAGATTGGTTACAACAGCTGCCCCACCAATCTCCTCTACAGGGAAGGA
TTCCTACTCTGAGACCTTGGTCTTTTCCAGGCAGATCACTTACATTTCTCCTCACAGATTATTTCTCATCCT
GCAGCCTGGGTCCAAATGGGCTTTGCTGTGAACAGTGACTCTCAGGCTTCTGGTCTCTGCTGTGCTTGAG
TGTCGTTGAGATGCTCCATCTCCTCCTACTGCACCCACCCAGCAATCATCTCTCTTTCAGGAATTCACCA
AAGTCTTTTTTAAAAATTATTTCTTTTGTGTTTGTGACAGAGTCTTGCTCTGTTGCCCAGGCTGGAGTACAGT
GGCGCAATCTCCGCTCGCTGCAACCTCTGCCTCCTGGGTTCAAGTGATTCTCCTGCCTCAGCCTCCTGAC
TGGCAGGGACTACAGGCATGTGTCAACACACCCAGCTAATTTTTGTATTTTTAGTAGAGATGGTGTTC
CCATATTGGCCAGGCTGGTCTCAAACCTCCTGACCTCAGGTGATCTGCCGGGGTCCATTTTACGTGGCAGA
CTTTATTTTTAGAAAGATAGGTTACGACAGTTGCTCCACCCATCCCCCTGCAGGGAAGGAGTCTACTCT
GAGACCTTGGTCTTTTCCAGGCAGATCACTTACCTTTCCTCACAGATTATTTCTCATCCTGCAGCCTGGG
TCCAAAGTGCTGGGATTACAAGCGTAAGCCACCACATCCGGCTCACCAAAGTCTTTGGGTGGTTGATGTC
ATATGCCTCCAGTTGATAGCACTTTTAAAGATTTTTCTTTTTGTATGCTGTTATTATTTTTAGAAAGGCT
TTTGGATTATTATTGTTAAAGAGTATGCCATGTCTATCTTTTAACTTTTAAAGCATCTATTGCTTTGTAC
TTGTACTTTATATATATGTATATCCTTCCCCCAATAAGACAAAGAGTGCAAATAATCACCTCCCTTGCT
GTTGTTTTGGGTTTAAATTCAGGAGTCAGTGGAATTAAGCCATAAAGTCAAGTATAGTTTTAAAGCAGCAGT
CCCCAACCCCTTTTGGCACCAGGGACTGGCTTTGTGGAAGACAGTTTTTCCATGGACCAGTGTGGGGGCTG
GAAGGTGATTCCAGGATGATTGAGGTACATTACATTAATTGTGCACTTTATTTCTATTATTATTACATTG
CAATACATAAGGAAGTAATTATACAACCTTACCATAACATAGAATCAATGGGAGCCTTGAGCTTCTTTTCC
TGCAACTAGACGCTCCCATCTGGGGGTGATGGGAGACAGTGACAGATTATCAGGCATTAGATTATCATAA
GGAGTGCACAACCTAGATCCCTTGTGTGCACAGTTCACAGTAGGATTGCTGCTCCTATGAGAATCTAATG
CTGCCACTGATCTGACAGGAGGTGGAGCTCAGGCAGTAATGCGAGCAATGGGAGTGGCTGTAAATACAGA
TGAAGCTTCACTTGACGTTCACTGCTCACCTCCTGTTGGGCGGCCAGTTCCTAACAGGGTTGGGGAC
CCCTGCTTTAAAGAATATGTTTGTGGATTATAGAGGGAAACAACACACACTGGGGCCTTTTCGGAGGGTG
GAGGGTGGGAGGAGGCAGATGATCAGAAAAAATATTAATAACTAATGTGTACTAGGCTTAATATCTGGGT
GTTGAAATAATCTATACAACAACCCCATGACACAAGTTTACCTATGTGAGAAACCTGCACGTGTACTC
CAGAGCTTAAAAATAAATGTTAAAAAATTCCTTCCAAAAAGGATATATTTGCATCGGAGTTATATTTGTAT
ATGAGTATATATTTGTATATATAAATATACTTGTATATGAAAAAATATCTTTTTCTTTTCATTTTATTT
TCCAAACATTAAAGTCGGGCACATTGGTTAGGAATTTACCAATACTTTTACAAAACCTGAGGACTTGA
TGATAAAGGCACCTTTTTTAAAGATTACACACTGGCATGGGGAATAATACCTTTATAAAGATGATCTATGT
GTTCTGAAATATCCCGATGCATCTCCTAGCTGGATCTTCCGCTCCACAAAAATTCATAAGATGAGATTCT
TGAATTAGAATGCATGCCCTTAATGTATTAAGTCTATGTAGAGAGAGTTATTTAGTCCATGTAAATTAAGT
GGGAATATTTTTATTGATTACTGTTTTATCTGGATCTTGCCCACTTAAGGCCTTCAAAAATGAAATTTA
AGGCCTGTTAAGCAGACCCAACATCAACAGCATATTCTCTCTCTCTGTAAGTATTGTCTAGTTGATAAA
AAATTTCAAAAACATGTCTTAATCAAAAACAAGATGATCCAGCACAGGTTAATAAATGTTTTGTGAATA
TGGCACATTCGTGTCTCATTACTACAGTTTTCTATGCTGTCTTTCTCAATAATTCCCCCAAAATTGTA
GTGTTTACATTATGGCATTATAGTTACCTCTGAACCTAAAAAATTAACCTCAAAAGTATTTAAAAAAT
CATTATATTTAAACCATTTTCATGTTTAAATGGTTTGTACAGGGCAATGAAAGGAAATGTAGTAATAAAC
ACAGAATCAGATTTGGTCACTAATATTTTCTGCAAGTTGAAATATATGTAGACTGGCTTAGGGTCTAAAT
AGCATTGAATCCTGTTACCTTCCATCTATAATCAATTAATGTATTATGACATTGTTGTCCTCAGATCACT
GGGATCTCATGGTAAGTAAGTAAAGGGATTATTTCTGTGCATTTTCCCAATATCTATATTAGTTTTAATAT
ACCTTTATGTTAATGTATGACACTGACACTTAGTAATTGGATTAACTTCCTATCAGAATTTGTTTTTAC
TCATACTTTGTATACATGTCTTAAGGGTAGGGTAGATGTACATTTTTTCTGTGTTAGCCTATCTGTTTC
TGTGACACTACATGCTTTCTGTCTCCTCCAATTTGTGTTTCTTTCCGTGTACAAATATGCATCATCTACCAT
CTACATCTACAAAACATGTAGGCTTCCAATGTTTTCATGTAAATACATTTTCATGAGTCCTCAGTAGAGTG
TTAGATGAGTGGTTAATTAGTAATGTTAATAAATGTAAATTACAATAAAAACATTTATAATGTTAATAAA
TATAAGTTTATTGAACCTAAATAATTTAAACATCTTCTGAAATGTAGTAGAAATTATGATTAGCCATAAC
TAGTACAGTATTTTTTGTCTTGTAAATTTTTTTGGTGATATTCCATTTGTGGAATGAGTGTGTGTGTGTG
TGTGCAGTACAGACAGAAAGGAGAGAAACATATCTGCATGTTATGTTAGAAAGAGTAGTGTAGCTACCC
TACCAAAATTTACATACTGGCTGAACACAGTATGTAAAAAATTAATTTTTTAGTCCATTGCTGGTGTTCCT
TGTTGTTGGGTGACTCTATTCCACATGGTGATGCAGGGAACCAATCTCCTTTCCTTCTGTGGCTGTGTAAT
CCCTTGCAACCTTGAAGTCTCTGCATCTAATTTAGGATGAGGAAAGTGAAGGTGGAGGATATAGCCCT
CTTGACTGCCTTGACCTGGACCTGGAACATCTCTTTTGTCTCCATTCCATGGGGAAGAACTAGTGACATG
GTGGCCCATAGCTGCAGAGGGGAGGCTGAGAAATGCAGCCTCTGGATAAGAAGCCTACTCCCAGTGTTA
CTGTACATTGTGGGAGGGAAGCTTGAATCTGATGGACAGTGAGAACCATTCTCCACACAATAACGAAAT

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GACGTCTTCTCAACCTTGGCAATGTAGCATCCTGTGACTTAAGTATGTAAATAATTATCAGTACAGGTCA
GTGAAAAATTAGGTCACCTTTCCCTTCCACTTTTAATTCTATAGTTTAATTTGCCTATCTGCTACATATT
ATATATATGGGAATAGATAAGATTATCTATAAACATGTATAAATTTGTTTCCTACACTAAAAAGAAAAAT
GACAAAGAAGAATTAAGTTAGTTGCCCAAATCCACACAATACCACCAGGAGAAAGTCTAGGAACCATAACC
TTCTAAATCCAGGTCTACACTTCTTTAGTGCATAAATTTTTTCCCTAATATAGCTCTGAGGAGACTGGTG
TTTAAGAGGAGAATGTTAAGCCAAAAGCCCATTTCACTTGGCTCTGTACAGACAGTAAGTTAATTTCCAG
GATGTATAACTCCTGATTTTCTGTGATGACAGAGAAAATACTGACCTGATTTGGGTAACCTGAGGTTTG
GAGATCTTGAATAGCCTCATGTTCCCTGAACCTCTTTACCATAACATGAATTACTTCTTAGGAAGAAACATT
TATTCTGTAGAATTTGGTTTCGCATTTTATTTTTATTTTCTTAGACACTGGTAGTTGGAAATTCAGGAAG
AATTTGACTACAAAAACATTTATTAAAAAGAGTTTCTAATCTCACCTGCTAAGTGCTACAAGGAAAAAA
AAAAATACATTTTGAGCCCTCAAGGGGCTCCAAATACGGTTGAAGGAAAATTAGACCCAGAATAGTATAT
GATTAGGAACAAAACGATGGCAGAGAAATGAGAGTTTAGAGAAAGGAGAGATAATCCTGAGTTACCTTAG
GAAGAGAAAATTTACAGAGAAAACGGCCCCCACACTGATTTGGGGAAGATGATTCAGACTTGTCTCAAT
GGCATGAGGAGCAGGGGCCAGATGGGAAAGGACATCGTGGTGAAATGACACGATGAGCAGAAGCTTAGA
AGTACTTCTGCTTCACGTCTGTGATTCTGCCTCTCCCTTGTTTCTGCAGTGCTAAGTTGAGTGTAGTTC
CCCACACAAACCCTGAGCTTTCTTCCCTCCAGGCTGCTCCATCAGTCAGACAGGAGTGCCTTCTCAGGG
GATCCTCTTCTCATCTTATCGGGCCACTCATCTCGTCGACAGATTCCCATACTCCTGGTTGACTTGCT
CTTCCCTCTTTTAACTGACATGAGCAGGCATCACCTCTCCAGGAACTTCCCTGACACCAGGCTGAGT
CTCTCTGGTGTGCGGGAAGGCTTCTGTATTACTGCATCTGCCATTTTGATTTAAGGTTTTCTGCTCATTC
CAACTCAACAGTGAGCTCTTGAGGGCAGAAATTGTGTCTTATTCATTTTTCTTGTATGCCCTAAAAAT
GTATTGTGATAATATATAAGTAACGTACAATTTACCATTTTCACCTCTTGAAGTGATAGCTCAGTGGCG
TTAAGTGCAATTCACACTGTTGTGCAACCATTATCACCATTCTCCAGAACTTCTCATCATCCCAGGC
AAACTCTGTATCCATTACACAATAGCTCTCCATTTCCCTCCTGCCCTCAGCCTCAGGAAACCTCCCATCTA
CTTTCTCTTTCTACGCGTTTAACTACTCATATAGATGGAATCATCCAACATTTTCTTTTGTGCCTGGC
TTATTTCACTTGACATAATGTTTTCAAGGTTCTTTTATGTTTTCTTATGCGTTTTTATATCTCTCTATCT
TTGATAGCACCCAATACATAGAAGACAATGAATGTTTTGTGAGTGAAAACATAAGACCAGAAAGAAATA
GGATGTCATATTCTAGGGACACTCAAGACACTTTCTTGAGGACAGAGGCACTGTAGCTTGGAAATTTGGAA
GATGAGGTTGGCAAGGTGGGTGGGGAAGGATGGAAAAGTGATACGTTTCTGAAGCATGTGGATTTGCT
TCCATAAGCAGTGGTGGACCAGTGGGCACCCCTTATCTATTAAAAGAATGATTTTTTTTGTGACTCGTGTA
GAGCACTGTCTTAGTTACCTACCCAGTGGTAGATAAGAGAAGCGGATTAAGAAAGAGATCTGAACCTGAG
GAAATGGAGACTACCAAGTTTTTTGTAAATATGTCTGTTATAACATATATTATCTAGTACTTGCGATGCC
TGTGCCAAAGCATGCTTTTTGGTTTAGTTAAGCCTACTTAGCTCGCTAATTTAGTAATTTTGGCTTGAA
TTGCAAAAAGTTGATGGGGGAGATGGGGGAGTCTCTGACATCCTTCCCCCACTCACAGGTTTGAAAAATA
AAATTATGAAGAGCAAAAGGATCTTTTTCTGTGGTAAATTGTACTTCATGACAATAAACGAGTTGTGGTT
TTAGTGGTTAATTTATAAATTAGGCCATCTGGTTCTTCTGTAATCTAAAGATTTTTATATATATGTAAAA
TACAAAGTTGTCTTGGCAACTGCCAATCTATAAAGGAGAAAACATCTTGAACCTCTGTGGAGATAATAAA
ACCATATTAGCTGCCAAAGTGCTGCTGACATACTGTCCAATGAGACACCCAACGCCTTTGCATTACAGC
CAGCAAGGTGTGGAGCTAGATGTATTGATCTATTAAATAATATTAGCTTCTCTTCTCTGGGTGCGACTTG
GCCCAGAGCAAGTGAACAGGACCTATCTATCTCTTCTCAAAAGTCAACAGCTTCTTACCAAATTGTACA
ACTCAAGCCACAAAGAAAACAAGTCAAGGAAAGGACCAGAGGAGCAGAGGGCACATGCCTTGTTCCTCAG
ACCTTGGGACCAGCTCCAGCTCTGGCTCCTTGACATCCCGCTCTTCTCAAGTTCTCTGGCTTTGATCCT
AGTTTTCTGCCCTACTATTCTGACATGTACAGCACTTAGCAATTCATAACTTGCTTTATTAACCAATAT
CTCAACAGAACTTTTAAACAACCTGGGAGGAAGCAGAGTGGGTGTTACTGTCTCATTGCACAGATAATG
AAACTGAGGTTGAGAAAGGTTGAGTGTCTTGCCCAAGGCCACACGGCTTCTTAGTGGAGAAGCCAGGATC
TGCACCAATGTCTTCCATTGGACACACTGCCACTTAATATGGTACTTAGTTTTCTTTCTAGATGAAGCA
GTATGAGGAATTCTACCATGGATATCTCTCTCTATTTTTTTAACTGCAAAATAATGATAATGATAATAA
TGAATACTTCTAGAATACAGTCTCTATGCCAGGCACTATATGCTTTATATGTACTAACTTGCTTAATTCT
CCTAACAACCTTAGAAGGTAGTTACTAATATTATCACTATTTTTTAAATGGGGAACTGAGTTACAGAGAT
GGTAAATAAGTTGCCCAAGGTCACAGAGGCAGCCAGATTAGTGACAAAAGTTTGAGAGTACTCAGTTTGA
ATTTTACATGTTCCGTGGATATGGTTTATGCCAAATACCTTCTCCTTTCTAGACCTCAGTTTCTCATGT
ATCAAAACAAGTGAGTGCATATACAACTCTGAGGTCCCTTCTAGCCTGAAGATTAGAGTCTTTTATGCC
CACATGATATGGAAAACATTAATGCTGGCTCTTTAAGACTGGAACCTTGTCAATTTAAAAAATAAGCTCT
ACTAAATTTGCAGTAACTGTCCAAATACGATCTCTGGTCTCTGATTTGTATCTCTCACAGAGCATGATA
CAATGCTAGACACATATATACTCATTAATAAATTTGCTGAATTAAATTTGTAACATTCTCCAGATAGAC
CGTAAGGGTGAGCTGATGCCCTAATATGCTCCTCAGCTGCTGACTTAGGACCCGTGGGTGACAAACCTG
TCCTTGTGTTCCATCTGTGACAGTGGGCAGTGTCCAAAATGAGTCTCTCATCAAAAGTGAGTCCAGGA
AACTGGATCAGAGTAAGTAAGGAGTCTTCTTGCTTCTTTTCTCTAAAATACAATACAGTGCATTCTAG
CAAACTACCAGCATGCCTATAAATCTCATTTTAAAAATATCAGGAAATAGATGCTCATTGATAAAGAGGG
TAAGAATGAGCAAGGGAGAGAGTCAAGCCTGTACATTTGTGCTTAGGGTATTTTCATTTGAGAAATTATC
ATTGGAAAGATCAATTTCCAAGGCAGGCGTTTTGTCTTGAATTAATAAATAATCTTTATCAATAATAAT
TAAATAATGTCATTTTCCAGATACAAAGGGGAAACCATAATGCCTTTCATATGCCTTCTCATATCTTCA
GTGTTTCTCAAACCCAGCTGTGGGGTCTTTTTAGGGGAAGATACAAGGAGGGTGAGACCATGTGGAGCACA
CACTCAGCAGCCACTGTGAAGTCATGGGTCCCTTGCTACCTTTGGAAGCTGACAATCTGCATGAAAAGCA
GCCCCTAGGAACATGGGTAGTGGCCCGGGATCCAAAACCTCTGAATCCATAAAAGGGCTTTTGACTTCTT
GTTCCAGGACAAGTGACATCTGACATGCTTGCTGCTTGTGCTTCTTCTTCTTCTTCTTCTTCTTCTTCTT
CCATCCATCTGTCCATCAGTCTATCTGTCCATCCAGTCATCCATCCATCCATCCATCCATCCATCCATCCAT
ATCCATCCGCTCCTTCCATCCATCCATCCAAGATTTATTGAGCACTTACATGACAGGAAGTATGAGACACA
AAAGAAAATTCTACACAATTCTCCTAGGGACATGAATAATGGTTAGCAAAAATATATGGGAAGTCCCTGC
TTCAAGTAAAATTATGACTTAAGATATACATCAGATATTTGAAAAGATATTTTTTAAGTTCAACATTGAA
ATTCTAACTACATTGTGTCTTAAATTTCTATTTTCTAGTTAGACTTTTTTGAAGATACAAATCATTTGAA
TTATCATTATTATTGTTACTTGATTTTATTTATTCACATGAATGGTAAGAATTTTAAAGGAAGGTGGGT

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GCCCTAAAAATACATTTATGCCAACTGGATTGAATCACCTTGAATCACAATGAGTACAACAACTGCTAAT
GAGCTAACACTTAATGAGTAATGACCAGGCACCAGACACTGTTCTAGCACTTTATACTTACTGATTTCTT
TACTCTTCATGATAACCCTATGAGGAAAGTGCTTTTTTTGTTAAGCTCCATTTTCAGCTGAAGAAGCTGAG
GCCTGGAGAAGTTACATAGCTTTCTCATGGTGTCTCCACTATGAAGTAGCTGAGCTGAGATCTCACCCAA
GGCCCTGCTGGGTTTCAGGCCACACTCTTAAGTACTCACAGCTGCATCACACTGAATATCATCTCCCTGCA
CTGCCATTTTCATTTGAGCAGGGCTTTGCCTGTCAAGAACATTCATATCTTTTGATAAACAGTGCATTTTT
TCCCTGATAGTCTGTATGGGACAGCCTCCTTGTTCATCTGAAGGACAGGGACTTCAGGACCTCCTGCT
GTGGTCACCAAGGAATCACATTCAAACCTCTCAGCAAGGTGTTATGGTCCTTCTCAGTTTGCCTACGATC
CATTGAGGCAAAGGTTTCCTTCTCTCAATACACCCTCTGCTTTAGCCAGGGGGACCTCCCACCTGTCCTCT
CTATGTGTTCTATTTGTTCCCTGACTGTTAGTACCCGCTTGTGTGGTTTCCATGATCCTTCTTCTGCCTGG
AATGAGGCTCCTCTTGAGTCTGAGAGCTTCATTTCTGTCTGTCTTTTGGGCTGTGCCAAAGCCCCTCTG
CCTTCGTGGACTCCCCACTGATTCATTACCAATTTTCTCTCCTCTGGGCTCTTCTTAGATTGCAAATGG
TGCCCTCTGGATTGGGTACCAAGACTTGCAGTGCCTTATTTTGATACCACTAATATGAGACCATGTTATAT
GCCTCTTGAGATATCATTCCCTTTCTAGCAATAGACAGTGATAAGCATGCGTATAGAGGGTAAACGTAGG
ACTTTGAGGTTTCATCCATCTCAATAGACAAAAGTAAAGTATGCTAATTTCAATCCTTCACACAGTAAAT
TGAATGTAATAGGTCTTCAGTAACATTTGAGGAATGAAATGTTATTGATATATTGATTTAACTGAGCA
AATCCATAAGTGCCACGCTTGGAGTAAAGTACAGGGAATCTCATTTTTTGGGTAATTTCAAACAAGTAGG
AGACCATCCACTATCTATTAAGGACAAAGGAGATTTGAGTGACAAACATGTTCCAGACCATCCAATGGTG
TTATTCTACTACTTCATCCCAGCTAGTAAAATGGGGCAATAAGAACCACAAAAGCAGGTACTGTCCCTATG
TAAGTAGACTTCCTAGTCTCGGCCAAAACAAAAACAAAAAACAAGCAACACAAAACAAAAACAAT
GTGTGAAGAGCATCTTACCGTTCATTGCTTTGGATGATTTGTGCAAATCTAGTTAATGGGGGTGGATCTG
ATCAGTCTTTGTAGGAAGTCAGTATTGGCATATGTCTGGCTTCTGAATTTTCTAAAAATATAATTATTTA
TTTTTAAATCCATTCAATCAACACTGAATTTACTAATCAACTACTAAATAAGTAAAAGATCCTATAGTAG
ATCCTTCAAGAAATGGAAATTGAGACATTAGGTCACTATAAACCCCAACCCTTGTAATCTTTTTGTGGCA
ACCTTAGGAAACTTGGAAATGCTTTTTTACACTCTGATAAAGGTTTAATTGTAATCATAGCCCCAGTGTTC
AAAATGAGTCAGAAGATACAAAGTATCTCATAGGATAATATTATAGCTGTAGGTACTTCAAATGGACAAG
TATAACACATTATGACTGCTAATATGGATGCATTGGGAGGAAAATAAGCCCTAAGAAGCAATATGCAGAA
AAGCTATGATTGCTGGAGACAGATAGATCCAAGAACCTAGGTAATTTTTCAGCAAACTGTGGTTCCACTT
TCGCCCTCTTTCTTGACATTGACTGTGTTTTTAACAGGGAAAAAGTTATCTGAAATTTTGTAGAGTTCA
AACTTTAAATCGTGTTCACTTTGCTAAAACCTCCACTGGATGGAGTGGCAGAAGAGAAAAACACAGAAAT
AAAAGAAAAGCAGTAATGGAGAATGGAAATCTTTAAAGATGCTACCATCCTGAAAAGATTGAAAGCAA
GCCCAGGAAAGCCACGGGGAGGGAAAGAGCGCTTAGAGGTGTCCCAAGCTTTCAGAAGTGATGAGGGA
ACCCCAGCTCTTCTGTTACTTCTTGGCATTTTGTTCTCTATACGTTAGCTTTTGGTTAATCTTTCAT
GTTACTTATTATCTCTGTTTTAAATTTTACATTAACCTATTGGTTTCATATCCCACTTAACAAATTAGA
TATTTTCCTTGGGCTTATTAAGAAAATTATTTGCTCTCATATGTTATGGCTTTAGATTTTCTGTGTAGCT
AGGACTGTTCTTAAATTTTATCTTTACCTTTGTTATTTCTCTGAAGCATCCCCATTGGGGTGGCAGTGG
GGGTATTAAATGGTTATGTAAAATTTACATGTAATTGTGCAATTTACACATAGCCTCAAATATAATGAG
GCCTAGTCTAGCTGCCCATACCAAGAGGATATTATAGTTGCCAATAAAATCAGTATTATTCTTTTTTTT
TTCTGTTCTTTTTTAGCTTCTTGCAAACATTCACTCAGAATCCTTTTTGAATATCAGTTTGTGAAAAGC
ACCGTGCTGGGTTCTTTGGGAAAAGCCAAGATGAGGGCAAATGCATCCTCCTTCTAGTGAGTCTAGCAC
ACAGATGACTCAGGAAGTCATGCACTGGAGGAGGAGTATCTTCTAGAAGTGGGAAAGGTTAAGGAAGGG
ATCAGAAACCTTTTCACTCAACCAATTACATTTTCTGAAAGCATGTTATTAATCGTACATGATCTTGC
AGACCCAGATAGAGACTATATCACTATATCAATTGTTTTCTTGAACAACTGGAGTTAATTCTCATATGT
TTGGTTACCCTTCAAGTATTTATGTTTAGGATCTGTTTTCTTCTTAACTTACATTCCAAAGTTTAGG
TATCCTTCCCCTCCATTTGCTGTCCAAAACAGCATCCTTTCATGTAGCTACATGCCATTGGAATGATTTG
GTTTTTGCCATGGATTCCTAGTCCTAAATTTGGACTTTTATTGGTATCTAAGATGTCATGGACAGAACCC
ACAGATGTTGTACAAAAGGGCTGAGTGGACAGTCCAACAGAGTTACATCATCTGTTCCAAACACCCTTG
TAATGGTTGTATCAGCGTCAATGTCTGAGTTGCTGTCTGGTTCTCCTGGCCAGTCTCAGCTGGCCATG
CCTGTTACAGGCACCAGAGAAAGCTTCATACCTCAGGCAATCTTTACAAGGGATTGAAAGGCAAGAAAC
ATGTATTTTGGAGGTTTACCTGTTTATTTTCATGTATAGCTTCATATTAACAGATTTTGCTATCACTTAA
AAGTAAATAAAATGATTTTGATTTCTCAAAATCATCTTATAATTTATTAATCTATTTTAAGGCTTGCATT
TACATTTAATCTTCAAATCTTGATGCATTTTACAGAGTTTCTTTAGTTAGTTAAGGATATTAATGACTT
CCTTTAATAGTTGATGAAGTGAGTCATCATCGACAGTGAGTCACTAAGGCCAACTCTTGTTACCTGCTCTT
AAATAGCAGTTGTTTTACTAGATTTGTACTGAAACCTTTTTAAATCTGTTTGTCTTATATATAACAAG
CATTTCCAGTAGTTAATAATACTTTCTTAGCTCTTCAATCATTTTATGAGAGCATTACAAGAAAAGCAGG
AGATGGGGAAAGAGATATCTTGTGTGCCATGTAGGATGCATGAAATCTTACTTAGTCTGTTGTGTTTTG
GATTCGAGAGAAAAATATGTAATGAATCAAAATGTTTCTTACAGTCTCTGAAAAGATGTAATGAGACAGT
CTTCCAGCAGCCTTTGATCATCTGGGAAGTCATTGACTTTGATCCTTATCCTATCAGGGGCTCTTACCCT
GGGGTCCATAAAATACCCAGGCATTTTTTAAGAAGTGGATTTTCACTATAACTTGTTTCATTTTGTGATTTTT
AAAAATATTTTGTTTTATGCACTTAAACCTTAATCTGAGAAGTCATCTGTAGACTATACCAGATTTCCA
AATGGAATAAAAAATATTTAAGAACTCTCTTATGTGTGTGTTTCAACCTATAAAATTTTATATGTGTAGCTC
ATGGTTAGGTGGTAAGTAGAGAATTTGCTATCTGTGTAATATTTGGTACTTTTTTATAATGAAAAAGGAAG
TAATACAATGATAGGTACCATTTATTTGTTGACCACCCATATTTTCCAGGGAATGTGATAGATACTTTTT
ATATATTCTTTCTAGTTTTTACCATAACATGCTGCAGGGATAGTGTTACCATCTCATTTTGCAGATGAA
GAAATTGAAACCCAGAACAAATTCGTTTCATTTCATTTCAAAAAATATCCATAGAGCATACACTAAGAGAAGGC
ACTCTGCTAGGCACCAGAAATTGAATAATTGACCCCAAATCACCTAACTCATAAGTGGCAAAGCTGGACC
TAACAAAGCCCATTATCCCTTCTATCACACATTCCATCCTCATAATATCATATTCTACATAGAAAACTT
AACAGTCTGTTGAGACACTTGGAACTCTAAGAAGGTAGTCAACAGATACTTTTCTCTTTATATAAATAT
GATATCTAATTAGCTTTTCTGGAAGGAGTGATTCTGCCTTTTTTTAATTCTAGCATTCCTGAGCAAA
TTAGAGCCCAGGTAATGATTTCTGAGATAAGTCAATTCTCTTCTAGGACAATCTCTAGTCTTGTCTATCA
TGAGATGGAATAACAACGGTCTATGTCAATTCAGTGACGGCACCTGCATGTCTTGTATCTAAGAAAAGA

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[illegible]

AACCCTAAGTGGTAGGCCAGTCCATCTGCATTTTACAGACAGGAAATGCTTTCAGAGATATTAATTAGAT
GGCTGTAGACCACAGAAGAATTGAAAGTCAGGTCTTCTTGACTTTTCAGCTCATGACTTCATTACTTCTG
CCCTCCTCATTCTGTTGGGAGATGGGTGGGAGTGTGCCCTCCAGATAATCAGAAAGTCCCATGTTGGGAT
GTGATTTGGAAATAGCTAGTCCTCAGGCCTGTGGACGAAGGCTATTGTAGCCTCAAGAAAGAAAGAGTCA
GCTTGATATTGGCAAGGTGGTTATTTAGTGTGGCAGCTGCATAAGAGCATTGGATAGGTGGTATGATATG
GGATGGGGGTCAGGTGAGAGCTGCTCACACCTCCTTATTATGGCAGGGCAAACCAGAATAGTCACAGT
GATGGTGATGTAGGTAGGTTCAAGAGAAAGCTCATGTTCTTCTAGCATTGAGACTCACAATATTTCAAA
ACAAGTGATTATTTATTCCATTACTATTTATTTTGGTGATGGATGTTGCATTTATTTTATTTTCTAACAG
TAGTACATATTTGCTAAGAGTTGTTTGTGACATTCTTTATTTAAATGGATTAAACCCATTTTCTTAATTT
TTTTAAGTGTGTTGTCCTGTTATCGAAGATATCTTAAAGTGTTACAGAATGGGAATCATAGCTTTAATGAG
TCTGCATATAAGAGAGTCCAAACATTTTTTTTTTGGAGAGAAGGAAGGTCATTTCAACTGTACTATAGGA
ACGATAGGGCCCATGATCCATGGTATGGCAATAAGTTACTATTTTTTGGAGAATAAATCGCAAATATGG
GACGTGAAGACTGCTTGGTATTTACACAGGAGTCTAGTTCCTCTGATACTATATATTCTATAAGCTTTCT
CCCAGAAATCCAAAGTTTTATTTAGCTTGTAGCCATCATTGTGCCACAATCTTCTTCCATGATTTATTT
TTTTCCCATACTGTACTCTTGCACTGAGTCTTTGGCATTGAAAGGGAAAGAGATGAATTATTCAACTCTT
CTTCTATTGAGTGAAAAGCCAATACAGAAAAAAAATGCAACAGGCAATTTTCATGACTGACATTTTGGAG
AACATTGGGGTCATCATATGACTGAGAAAATGATTATCTCTTTTGAAGGTCAGGAAACCAATATTTTTTT
TTCCAGTGAATCTACTGAGGGAACCAACCACCTAGCTTTTTGTAAATAGCACTCCTCAGGGAAATGTTGC
TTTTTTCTTTTGCAGTGTCTGCTTTGAATCTTCATAGACTGTATCCCATGGAAGCAGGAATATAATTA
CTGTAGTGCTTACTTTTTTTTCTGTCTCTACTGAAGAGCCACCCTGATTTATCTTTTACTCCAAGGTAGT
GTGGAACTTTACAAGGATTTAGATTATATTAGTCATTTTGCTTGGAGATCTCTGCACACTTTTCAACATC
ATTTCTAAGAGCCTTGCCACACTCAGTAAAAGAGGGTGAGGCTTCAAGAATCTCTGTGTACCAACGCAAA
TTAGGCAATTTGTAAGAAGTCCCTAGTAGAGCAGAGTGGAGAGAGGGCTCAGGATCTCGTGAGGCCTGGG
GCAGGGAGGTGGACATGCTATGAGCTCCTTTCACAGTCAACACAAAGTTAACACATCTTGGAGGAAAAAC
CGTTACTGTATAATGGAAGGCAGAAGGCAGGGATGTCTGTGCTTGGTGATGAAGCTATAAGTAGTGAGCT
GATTTATGATGGAGGGGTGAATTGTGCCATGAAAGAGACTCCCCTCAATTTTATTAGCCAGATTACTGCC
CATATGCGGGGTGAGGAGTGAGCATTTTAAGGCATTTCTCTCTGTTTTCAATATATCATCTCTGGATTCA
CTATTACTGGGACTTGTGAATATAGACTAGGGATTAAACCTGAGTTTGCTTTTAAAAAATTTATTTTA
TTAAATGAGATTTCTGAGCAACTGATTTCACTTAGTCTTATCAAACCTATTCTTACTACTTTTTTCGATATG
CATTCTGTCCCTCCTGTGTGAAGGCCACAGGCCCATGGCCCCCATGTCATTGAGATGGAGGTCCTCAAGT
GATGGCGGGATGAATCACCTCTCACTTGCCACCTGCGAGAATGTCTATCACTGATACCTCTCCTTATGTC
CCGTAGCAGCTGCTAAGCTCCCACGTTATTATTGGTGACACTTTCTAGTGTTTCAGGAGAGAACAGGATTT
ACTTTTTGAATGCCTCTAAATTATTATAGCAGGTTCAATTTGGAATTGCATATCAGAACATTCTTCTGTT
TATCAGGAAAAATAACCAAGGTCTTGAACTTGATGTCTATCCATAGTTGGCCCAATATAATTTTGCATG
TGGTTTATTACATTATTTTTCTCCATTGGCTATGAAGTGAAGGCATCTCATGGATATTTATTCCACGCTG
AAAAGGTAGTTAGATGCTGTGTGGTAAAGTCGAGACCAGTATATTGGAAGAAAAGAGACACTCCATCTAA
TAATCTTTCATAGTCTTTCACATTCACTGAGAAGGTTACTTGATAACCTTTCCTGCACACTCTCTCCCAAC
CCTGACCCAGGAACCTTGCAGAGCACACTGTGCAACAGATCTAATAACCTTGTCTGCAGGCAATATGCAC
AGCTGGGAAAGATAAATTAAATAGACTCTTTTGAGAGGTCTACAACATTTCAACGGAAGGATCGAGCAAT
CCGGCTGGCCTCCGACTGAAAACCTATTACCAACAGACATACTTCAGACAGATTCCATGATCACCATCCTT
ATGTGGCACAAGTGCTTATGGGGAGCTTCTTTGGCTTCCAAAAGGCCACTAAAACCTGTCAGACCTAAATA
ATACTGGAACCTGTAAAGTGGGAATTAAAAATTATAATTCCATTTAACATGTAACGTTCTCATCAGAAAGG
GGCCTTTGGTTTCCATATTGATCGGTACATGGTCAGCTGCAATTGTAACCTCATGAGACACACCCAGAT
ATCATCCTGCGTGATTCTTTTTGAGGTTATTTAGGGTGTTAGATAATCCGAGGTAGGTTTCATCATGGG
TGGCAATATTACATATAGCAAATGTCATGAGAAGAGAGACAAAGCCTCCCTTTTGAATGTTAACATTTAT
GCAATAAGTTTAAATGTACCGTGTAAAGTTACATTACTATTATGAGACTTAACCTAAAAAATTGGGGTGAA
ATCTTAAAGAATTATGAAATTAAGAAATGAAACCAGAGGGCTTTTCGTTTTAAGTACTGATCACTTAAACC
AAAACCAGTTTGGCTTATCCTATGAGATCGTGGGTATTGAGAAAGAGGAACATTTGCTGCTGCATCCGGA
GATGTTTCCCTGAGAGCAAGACTAGTTCCCTTTGACCCAGTACATCCTACAGGTAAATCACTGCATGCTG
TAGAGATACCTGTTCCCTCCCTTCCCCCACCCTGGGGATCTGAAACCAAATCATTGCTTTTTTCATCTT
TTACTTATCCTTATAAACAAAGCCACCCACTTTCTCATTTTTTCTGATGCCAAGTCCTTCTTTACATGAG
TGGAATCCACTCTTTTCAATGGAAAGACACCTGCTCTGAGACAGGCTACACTGTCATGAGCCTTGGCATG
GCTGAGTGATGTAGTGAAGGTGCAATAAATTTAACTTTAAAAATGCAAAATTTGATGGAATCATGCAT
CTTGTGCCTACAGTGAGTATATGGTCTAGCAGGATTTACAGATACATGCATGATTAATTTGAATACAGTA
TAGCAAAATGATCTGTTAAAAAACACATGAAAAGATGTGCAACCTTATTAGTCATTAGGAAAATGCACAT
AAAACCACCGTTCCTGTGTGATACCTCTGTACGTCTATTAGAATGTATAAAATTTAAAAAGACTGAACAT
AGCAAGCACTGGTGAGGTTGTAGACCAACTGGTGCTTTTCATGTTTTGCTGGTGAGAATGTAAACATTACA
ACTACTTTGAAAACAGTTTGACAGTTTCTTAAAAAGCTAAAACATCCACCTGGCATGCTATATACAGATA
TCCTACTCTTACGTATTTAAACCAAGAGAAATAAAAGCATATATCCATTCAAAAACCTTGTAATAAATTGC
TCCTAGCAGCTTTATTTGTAATAGCCAAAAACTAGAAACAACCCAAATGTCCAATGAAAGGATACATCGT
ATTTATTTATAGGACATATCCATGCAATGGAATACCACCTTAGGAATAGAAAGAATCAACTGTTTCATCATA
CATACAACCACATGGCTAAGTCTTAAAAATAATTATGCTTAGTTAAGAAGTCAGACAAAAAGGTAAGAGA
CTGTTAGGAGCTGAATTAGCGGGTTAACAGTGGCAATGAAAAAGGAGAAAATTATAGCTACCTCAAGATA
GAATTGATGAGCTTTGATTATGAAATGATGGTAAGAGAGAGGGCCATAGACTCTGAGGTCTGTCTCTAGC
TTTGGTTTCCCTATGTGGATCATTATCTATTTGGATATAAGAATTATCTGAAAGATGATACTTAAGCATG
TAAGAAATGATAAGCTACCTGTTTAAATGATGAGCTTTTGTACCTCCAAGAACCCCAAGAAGAAACATCC
TGTAAGCAGACCATTACACTTGATTGTTAAAGGAAAACAAAATTCATTTTGTCTTTTTCATCAACACA
AGTATAGCTGGCTAATAAAAGTGTAATATTCATGAGAGAAAAAGAAAAGAACACGCACACACATACACTC
AACAGGATTCCTAGAGTCATTCCCATGGATAAGAGGGAAGGAAAGGTTGAGGGCAAAGAGAGAAGGGAAG
GAAACAGACTATGATGGGATATCTTAGGGCAAAGAATAGGGGGCTGATTTGGAAGGCAGCAAACCTTCAT
GGATACTTGATTTATTTAATGTCCCTGTCACTCTGGCGTATCTTAATGTGTGTGGTGTGTGATTTATTTA

FIGURE 1, sheet 75 of 94

[illegible]

CACCCAGGTGGCTTGTGGCCAAATCAGAAGAATCTACATCTTCTGATAGTCATGGCAGCTGTTATTCCCA
TCCAACCTCACTTCCTGTGCATTGCTACTCATCAATTCCCCACTTATTCTTTTAAAAACATTGCATAAATA
CATATCTATGTGTTTTGGAAAGATTTTCTTAATCTATAAGCGCATTGGCGTGTGCTTATATGTCTGCTT
ATATGCCAAATTTGAAATTCCAAATTTGCGCATTTGGAATTTCAAATGGGGAAAAGCAAAGACTCTTATC
TTCCCATATAATCAAACCCCTTATGAAGTAAATCCTTAAGGTCTCTCTACAGGTTAAAAATAATTAGGTG
ATATGATTTGGCTGTGTTCCACCCAAATTTACCTTTAATTGTAATAATCCCCAGGTGTCAAGGGTGGG
GCCAGGTGGAGATAATTGAATCATGTGGGTTGTTTTCCCCATACTGTTAGTGTGGTAGTGAATAAGTTTC
ATGAGATCTGATGATTTTATAAATGGGAGTCCCCCTGCACAAGCTCTCTTGCTGCTGCCATGTAAGATG
TGACTTTGCTCCTCCTTGCTTCCGCCATGATTATGAGGCCTCCTCAGCCATGTGGAACCTGAGTCAAT
TAAACCTCTTTCTTTTATATATTACCCAGTCTCAAGTATGTCTTTATTAGCAGCATGAGAACAACTAAT
ACATTAGGTATATGTTAATGATGAGGAATGTGTATAAATACATATACATTTATATTTAAATATTAATATT
TACAAATAACATGATATTAAAAATATGGTCTATAATTTTTTAAATTATCTACCTTTCTAATCATTAACAT
GCACTAAATATTATTAATTTCAATATTATTTAATTACCATCTTGGTGTGTTGAGGATAACTGCTTTTGAT
GGCATTGATAGATGCATTAACAGTGAACATTGTGACCAACAGCCCATCTGAGATTTTATACTTGTAGAA
GATGGCTTCTGAGTGACAGCTGAGAAGACTGTTTATGTCTTTGCCCTACAGGTTCTTAACCCCTTTAATA
AAATAGAGCTCTCTGATGCAGATGACACATGGGCCTTCTTTTGCTCTTGTCCCATCACATTGTACATAG
TAAACATTTTGTAGCAACAAATAGTAGATACTTATAACTTTAAAAGCTAAGTGGTTGACAGCTGAGAGGCA
GATGATGGTAATTTTCATCATTTTCTCATATCTCAGGCATTGTGACACTACCTCTGCAAGGTCAACTGTC
TCCATAGGCTGTTTTCATTTGCGTAGAAATAGGGGGGAAAAGATAGCTTGAAGTCATCAGGAGCCCTGCAA
CCCATGGATTACCAATGTTGCTAACTGGAGCCTGGATTTTCATCTTCAATTGATTGTAATGATGTCTTGTT
CTCTCAAATCTTTGCAAATCTAGGCATTTATAAGACTATCCTGTAGGTCCCTTACAAGACCATGAGGATG
CTAGAACTTACCCTAGTCTTTTCTTGTAATTGCTTAAATGTTAGTATTGGCAAATGGGGTTTGGTGATTA
TAAGAGTAAAAAACCTGCTGCCATCCCACATTTGTGAGCAGAGGATACATTTCTATCTTGTGTCCATT
TAAAAAGAATGATTGCTTGATTGGCTTCCTGATGACAACCCCATGATATACTGATTCTGTAGTTTATAAC
TTTCCCTAGTAGTCATATGCTTATAGGCCAATTTTATCCTTGCCATGCTTAGCCTAGTCACAATTTCCAGT
TCTTCTCTGTATCCTGCAGCAGTGAGTTCCAAACACTTAATGCTGTCTCTCTTCTGTAACCAAGA
AATAAAGGTTATTATAAGGTATAAATAAAGAACCCAGTGATTTCTCTTGGGGTGTGTGTGTCCATGTGTG
TGTATATTTTACAAGAGGAAAGTTAAAGATACTAAGAATGCCTGTGAAAGTAATCAGGAAATGGAGAAAA
CTTGTTTTCCATTCTAGCACCTAATCCTTTGGTGTGTTTTGGCACTAGAAAACACAAAATATGTCTCTG
TGTCTACTAGGAATGCCTCTCTTCATTTAGTCTGCTTGAGTGCTCATGATGAAAAATATAGACTGAAA
ACAGGAGCAAAAGTGTTTCATCCTACTCATTCCCTGTGGGGTCTCTTTGCTTTCAAAGAGATGTTAGAGAT
GTTAGTAAATGGTGTGTAAGAAACAATGTAAATTGCCTGTTTAGTAAGATGATCCAGTTTCTAAGGAAC
TGTTTTACTGGCGCCTTCCATGCTAACAATCTGAGAAATATTTGCGGATTTCTCAGTGAAGCCAAAGC
ACTCTCTTTTGACTCCTATTTACTCTCAGAGAAAAAACTATTTCATCCATTTGAAAAGCAGGGACCAATT
CAACAAGCAGAATATCCCTCTACTAAGCCTTTGGCCAGAGAGTTGTTGCTCTAGTCTTTCCATCACTC
CTGCATCAGGAGGCTCTGCCTGCAGGAAATAGTATTGGACAACAGAAAGTTCTTTACTTGTAGGCATAA
AATAGGTATAAATCTCCTCCTTAAGAGAAAAACAGGTTGCTGCACCAGAAAGAACATTTGCCTCTTCTA
CTAAATAGCAGACTGTTTTCCAATGATAAACTCATTTTAAATAGAAAAAAAAGTCATTCTCTACAAAC
AAGAACATTTTCATTTTAGGTTGTTTATTGTAAATATTTAGAAAAAAAATATGCAAAAAAAAATGCC
CAAAAATCAATGCTTCCAGTAACATATTTATTAGCTATCTTTTTCCCATGTAAACTTCAGGTAAATTC
TTTGACAGATTTTACTTGGGAAGATGATAAAAAAAAAGTTCTGAAATGAGTTGAATTCATCC
ACGTGTGTTTTGATTCACATGAAGAGTAGGACCTCCCTTTATATTCCCTCTTCAAATCTCCCTCTGA
AAAATGGGTGGTACACTCAAAGGAGGACCGCACACATTGTAGTAGCTGGGGTGTGGGGGTGGAAGGAGC
AGGTTTTGGGGGTGGGAGGAGCGGTGAGTGATCCTTTCAGCAAAGTCAGTCTGGGCAGGAGACGGCTTC
AGGAATACTGTCAGCTTTACTGGATTCCACCATCGCTTTCAGGACTGTTTAGGCCCTGGGCCCTTGAAG
GGTTTGCGTGCCTCTTGCTCCATTTCATACCTCAAGAACTTTGTTTCATGTTAATTTTTTTTCACTCTATC
ATATGGAATTGAGTAAAAAAGAAAAAAGGAAGCCAACACTTAACTGCTTTAATGTATAGGA
CTCTGTTCTGGGTTGTCTTCTAAAGTACATTTTCATTCAATGTGTGAGAATACAGATAGGAAAGAGTTTGT
CTAGTTTCTATTTTACTGTTGATCCATTGATTCTTTCTGGTTCTCAGCCCTTAATTGCTCAGCTGCAGA
TACCACTTGACTGACTCTTAAAAGTCTTTGGTTTATTGCCCAATTCTGGGAATATGAACTGTAAGCTGT
TTAGGAGAAAAACTGAGACCAAAAGAAAGGAGAGTGAGCCAACTGCCATTATGATTGCCACTTCTTAT
TGAAGATAAATCAAATATCCATTTGACTAGAAATCAATTGAATTATGCACTTTAAATGGGCCAATTCAA
TGATACCTGAACTATATCTCAAAAAAGGTGTTAAACACAGGCACACACGTACACACACATATTGGAATTC
CAGGAAAAGTCACTTTGATCAACAAGATTATCAGTCGTCAAAGTGCTTGGAAGGGTTCTATTGGAATAAA
GCTAAAAAAAATCAAAGTAAATTTCTCCTTAAAAACAAAAGCAATTAAGCAGCACTGTATTATAAAATA
TGCTAAGCTGCAAGTCAAATTTCTTAAGAGACTTAAGCCTGTAAGCAGTAAGGATCCACTCAATGTAAAG
TTACTCCAGAGGGAAAGGCGTGAGCCCAACCAAGTATTAATGCTGTGTAGGAGGTTAATTTGACTCTTC
TTAACATTTTACACACCACATTATGTTTTATTACCATTTATTATTAACCTGAATTTATTAAAGTATAAT
CAAAATAATATTTTGGAGGTTTAAAAATATTCTCATAATATTTAAGTTACATATACTATGCAGGGACCG
TCAAGTAATTCCACTCTGACATCTGTATTTATTACCGCCACCTGTCCATGATGGTATTAGAAAGATCCTC
ATTTGTTTTAATGGATGCCTCTAAATCCAGTTTTAAGAGGGGGTTGGCCACTTTCAAGTTTGTGTTAGT
TAGGATTCAGTTTAACCCAGCTCAACAGGTATTTACTAAGTACCAGCATATCCATAGGGCGCTGTATGAT
ACTGGAGGACACACAGAAAGAGATGTGTAAGAGGCACTCCTGCCCTCAAGGAGTTTACTATTGAGTGGT
AGTGTAATATGAATAAACAATGAATCTGCTCAAAGCAGGGCATTCTAAGCAGGCCCTCACCAGCCTCT
CATCATTCGCATCTAGTGTATCTTCTCCATCACTTTCTAAACGCTATGGATTCTGAGTGAACCAATC
GCTGGTTTATGCATGTATGCATATATGAATTCATTCTTGACATTGCCATGCAGAGTATTTAGTATAACTA
GACTTATTATCCATTTATCCTGCCTAGAAGCATACTGTAATATATATAACTCTAAAAGCAAGATCATTC
TTATGTTGGTTCTTTTGGAGCTGGCAGGGGGAAAGCAGAGTATGTTGGCAGGGGTCTATCAAGGTAGATGA
GCCCAGTTTGTACATCTTTGAAATATTACCAATGCCAATGTGTTAGTACTGCTTGGATCTCTTCTATGAC
AACAGTTCTATTTTTTCTTTTTTTTTGTTTGTGTTTTTTGAGACAGGATCTTGCTCTGTACCTAGA
CAGGAGCGCAGTGGTGTGATCTCGCTCACTTCAATTTCCGCTCCTGGGTTCAAGCAATTCTTGTGCCT

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CAGCCTACAGAGTAGTTGGGATTACACGCATGCGCCATCATGCCTGGCTAATTTTTGCATTTTGTAGTAGA
GATGGGGTTTTGCCACGTTGGCCAGGCTGGTCTGGAACCTCCTGGCCTCAAGTGATCTACCCGCCCTTGGCC
TCCCAAATTGCTGGGATTACAGGTGTGAGCCACCACACCTGGCCCATCAGTTCTTAATTTGATGAATGGA
TAGAGGTTTGGCTTCAAATAAATGGAGTTAGTCTGTCAATATCTGTTTCTTTTAAATTTGCAATTGTTT
TTATTTTGTAGTGCATGCTATGTGCCCTTAATGATCTAGAATTAAGTTCTAATCTCTACCCTGGTATAAT
TGATTTCTCCCTGTGGACTCCTAATATAAGAAGAAAGATGAAGTTTTCTTTTAAATGCTTTTAGAGATCT
TCATTAAGTCATTTAATATTCTTATTTGCTATTTCCAGTGATGGTTAAGACTGAGTGTCAACTTGAT
TGGATTGAAGGATACAAAGTATTAATCCTGGGTGTGTCTGTGAGGGTGTACCAGGAGATTAATATTT
GAGTCAGTGGGCTGTGGAAGGCACACCCACCCTTAATCTGGTGGGCACGATCTAGTCAGCTGCCAGCGAA
TATAAGGCAGGCAGAAAAACGTGAAAGGGGAAACTGGCCTAGCCTCCAGCCTACATCTTTCTACCATGC
TGAATGCTTCCCTGCCCTTGAACATTGGACTCCAAAATATTAGTTTGGGACTCGGACTGGCTCTCCTTG
CTGCTCAGCTTGCAGACAGTCTATTGTGGGACCTTCCGATCATGTAAGTTAATGCTTAATAAACTCCCCT
TTATATATATCCTATTAGTTCTGTCCCTCTAGAGAACCCTGACTAATACACCCAGTGTGTTCTTTTATCA
AATAGAAAAGGAGATATAGAAAACACACTGTCCATGTCTTTGATTGTTACACCACAGCAGAGAATCAATTT
CTTAACCTGCTTACTTATTTACCATTCTCCAATGGTGCCAATTCTGAGATCCATCATGACTTTTATCATTA
GAAAAGGGGATGTAACAAACATGATGAGATGTTACGGGAATACTGCTTACTGCATGATATGGTTTGGCTG
TGTCTCACCCAAATCTCATCCTGAATTTTAGCCTCCATACTTCCCACGTGTTGTGGGAGGGACCCGGT
GGGAGGTAATTGACTCATGGGGTGGTTTCTCCATACTCTTCTCCTGGTAGTGAATAAGTCTCACAAAGA
TCTGATGGTTTTATAAGGGGTTTTCCCTTTCACTTGGCTCTCATTCTCTCTTGCCTGCTGCCATGCAAGA
CATCCCTTTGCTCCTCCTTCATCTTCTGCCATGATTGTGAGGCCTCCCCAGCCATGTGGAAGTGAAGTC
CTTTAAACCTCTTTTCTTTATAAATTGCCAGTCTCATGTATGTCTTTATCAGCAGCATGAAAACGGACT
AATACACTGCATGCTCAGTATACTCAGGCACTCTGGAACTAGGTTTCTACTTCGGACCCCTGAGAGAAA
AGGGTTATGTATCTCCAAGTGTGGTCATGACAAGCATCACTACTGTGTGCAGTTGGGCCTGTGGATTGAG
CCACCTTAGCCTCTGAGGAAAGCAGAACCTGAGAGCATGCTTAATTCAGAGTGTGTGTGACTTGGAGTGT
GGAAAGGAAGATTTCCAGATTTGCGGTATTGGCGACTGAAAGGATGGCAATGCTATTGATGGAGATTAGG
AAGACAGGAGAGAGGTAGATGTTGAGCAACTCCGAGGAGTTTTTCTCATAACATGTTGGGTTTAAAGTGC
AGGGAAGATATCCTGAAGGTTATTCCAGGCAGAAATTTGGAGCTCAGAAGAGACATCAGAGCTGAAGATA
AAAAATTTGAGAGCCATCTCCGTAGCTAAAAGTGTGGAACGAATGTGATGACTAGACAAGATAATAGAGA
AAAGGTATCCAAAGGCCTGAGGTCAAGACCTCTTAAAAGGCTGACTTTTCAGGGTTTTAGGTAGAAAAAG
AGTCCCAGCCTGGGGTTAAGGCAGTTTTTTGGGAAGTAGAGGTACAAAGTTCTTGTTCCAAAGGAAGGG
TGTCTTTCAAAGAAAAAGGATGGGCCGGGTGCAGTGGCTTACACATGTAATCTCAGCACTTTGGGAGGC
CGAGGCTGGCAGATCACCTGAGGTTGGGAGTTCGAGACCAACCTGACCAACATGGAGAAACCTGTCTCT
ACTAAAAATACAAAAATAAAAAATTAGCCGGGCTTGGTGGTGCATGCCTGTAATCCCAGCTACTCAGGAG
GCTGAGGCAGGAGAATCATTGAACCTGGGAGGCAGAGTTGTCAGTGAGCCAAGTTCTCACCATTGCACT
CCAGCCTGGGCAACAAGAGTGAACTCTGTCTCAAAAAAAGAGAGAAAAAGAAAAAGGATGGT
GAATTGGGCCAAATACCAGAGAGATGGACAGGAGTAAGAAGAAAAAGACTAAAGATTTGTTTCATCAGGAG
CTCATTGTTTCTAAAGGGAGCATTTTTAGTAAAGAGGAAGGAGGAATAAAATGCAGTATAATATGTTAAA
TCTAAGTATAATTTATAAAGAGAAAAATGGGGGTGGAATATTACAAAAAGGAACATAAACCAGCTCTT
TGAGGTATTTGTGAGTGAAGAAACAGTGGGGCTCTAGTTCTTGATAGCAACAGCATCAAAGGGAACCTTT
TTAACTAAAAATATTATGAATTTTTCAAACCTGAAATAATGAGAGAATAATACAAAGAAATCTCATCTGCC
CATAATCCAAATTCAGTAGTTATTAAAATTTTGGCCCATTGCTTAATCCATTAAATCTCATTTTCAATTTTGT
CCTTTTTCTTTGTTTATTTTGGCTAAACATTTTAAAGACAAATCCTAAATATCATACATCAGTAGGCA
TTTACAAAAAATTTCTTGATAATGACAATGCCATTCTCATACCAATAAACTTATAATAATTCTGTGAT
ATCATCTAAAAACAGTTCTTTTCTACATCAAAAATGTCTGTTTATAGTTGATTTATTCAATTTAGAGTC
CAACAAGTTCCATATATTAGACATTAGGTCATTAATGTCTGTCTATTTGAATTTATAACAATTTCCACT
TAATTTATTTTCTCCAGCTTCTGTGGAGACTAGGTAAGTTGTTTGTAGCTGTCTGGATATATCTGATTG
CTTCCTTGCAGTGTCAATTAACCTGTTTCTCTATCCTCAGTGTTCCTGCACATGGAAGTTAGCCTCATAG
CAGGGGTTGGCATACTTTAGCCTGCTTACCAATACGACTCCTTTACATTTTGTAAATAAAATGTTACT
GGAACACTGTACATATGTTGGGGTCATAGAAAGAGTTTCCGTGTCCCAAGTTATAATTGCATTCACCTT
ATATTTTCTTCTAGTAATTTTTACCCTTACATATTAGGGGTCAATTTGGAATTTCTCTTCATATACAGTA
TGCAATAAAGAAATGGCTTTTATATTTTCCAAATGTATATTAGTTGTCTCAACACCATTTATTAAAAAG
TCAGTATTTCTCAAGTGATTTGAGATCTACCCTTAATTACACAGTAAATTTCTCTGTAGTCTTGTCTTTT
TCTAATATGTTAATCTGTACCAAGATTTGTTTCATCTGTTAATGGATCAATATCACATAGCTTTGTTTAT
AGAAGGTGCACATTGTTTTAATCTGGCCATGCTATCCACCAAAATATTGCCCTTTGATTTTTCAGAGTT
TTACTGTGGATTCTTCCTTGTCTTTTCTATGTGACCTTTAGAATTAACCTGTTTAAATCTATAAGTA
AATTTATTGATAATTTTATTGAAATATGTAATAATAAATTGGCTTAGGAAGTACTGATATCTCCATGA
CATTAGTCTTCATATCTAAGACCAAGGGGTGCCTTTTCATTTGTTAAATATTCTTTGTGTCTTTCAGAA
GTGTTTTCAAGTATCCTTATGTGTATTTTGCACAAATTTTATATTTGTGCCTATTGGATGCCACGTGCA
GGGTAAAAAATATTATACCTATTTTATATAGATATATATGTATATAAAATATATATTATATATAGTTA
TAATACATAAATATATTTAATATATATATATAATATATACATGTATTGTATTTATATATGTATTTATATG
TGTATCTATAAATATACATATGTATGTATCTATAAATATACATGTATGTGTACATATACACATATATACA
CATTATATGTATGTTTATACACATATAAATACATATATAAATATACTAGAAAGTCCATGGGGTTTCTAG
TATACAATCATATTGTCTGCAATAGAGATTGTTATACCTTTTCTTTCTATTCCAAAGTGTCTAAAAGA
TTTTTTCTTAGCTAGTGGCATTGGATGACACCTATAATGTCTTCTAAAAATAGTAGCAGTCATAGGCACC
ATTTCTTATTTTGAATATTCATTCATGTTACAAAGTTTATAGGAATTTCTGAATTATTAAGTACTTTTA
ATAGGAATGAAGGTTATTGTCAATTATTGCATCAAAATTCATAAGAAAGTTGGTGTCAAATTTGTGCTTT
GTGTGTAGTCTTCATCACGCTTTTTTTTTTTTTTAAACCAGTGTTAAACATCCATTACAAAAATAGTTTG
GAAGTTTTTCTTTTTTTTTTTTTTCTATGTCTGGAAGGTGTAAGTAGAATTGGAATTATTTGATCTTTAAG
ATGTAAAAATATTGGTAGAATTCTACCTTTGAAAGCACCTGGACATGGTGACTTCTTAATAGGTGAGCTCT
CTGGAACTTTATTTCTTCTGTAGTAATTGGTCTCCTTAGACTTTCTATTCTTCTGGAGTCAGATATTG
TATATCAAATCTTCTGTAAAGTTATCCATTTCTTCTGGTATTCCAATTTTTCACATTGAGTTGGACAA

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ATGATTTCTGATGATGTTTAAAAAATTTCTCTGGTTTGATGGTTACTTTGACCGTATAATTTATTTTGTG
TATTTATGCTTCTTTTAGAACTTAGGTCAGCTAGTGGTTCCTCTATTTTGTTGATTTTTTTCCTCAAAG
AACTAGCTTAAGTTTATTTTATTAGTTCTACTAGTTTCTGCTTCTAACTCATTAAAGTTATGCCTTTAG
CTTTATTAAATCCTTCATTCTGCTATCAGTTAATGTTTTAGTTCATTTTCTAGCTTTTGTAGTTGATACT
TAATTTATTTTTCATTTTCATGATATAGGTAAGTATGCTCAGAAATTTTCTCAAAGCATCCGTTTTCGCTGG
GCCCCATAGATTCTAATATATCTTACTTTTATTATCATTATTTTCTAAAAATTCAGCAATTTTCATGTTTT
ATTTTGTCTCTCATTCAAGAGTTGTTTAATAGACAATTTAATTTCCAGGTTGGATGGGCATTTTGTGTTG
TTTTTTGTTTTACTGTTTATAAATACTTTTGGCCTTGGGATCAGAGAATACTGCTTGATTACAATTATT
ACTGAATATTTTTGTGGTCTAATATAATTTTTCAGCTTTCAAAAATGTTCCATGTATACTTGAAATGAAGGT
TTATTTACCCTTATAAAGATAGAAGTTAAAATATTAGCTATGCCATGTCTATTTATCTTCTTATAATTT
TTGCTTAATGAAAATAATGATCCATTATCTGCTGCATAAGTATTTATGTTTGCTTCTCTTTATTATGC
CTTATGGCTTTTGTGTTAAAAAGCTATTGATTTATTTAATATTTTGAAGGATTGAATTTTACCCTATCT
AATATCAAGATCATGACTCTTGATTCCTTTTTGTTTTCACTTGTTAATATATCTTCTCTATCTTTAT
TTTAAACACAAGAAGAGCTTTGCTTTCAGTTTCTATTTTACATAGTCTACAATCGGATTTTACTTATTAG
TCAATCTGAGAATACTTTTAAATAGATGAGTTACACAAATACATATTTATTGATACCAACACTGTTTAATT
CAAGATCTGTTCTATTATTTTATATTTATTATATATTAATTTGTCTTCTTTATTTACTATTTATTGATTT
ATTGAATTTATTTTGCTTTCAGGTATTTTGTATTTTGTCTGGTTGTTAGATTTATGCATACCTACTCA
ACTCTTCCTTTATAAAGCATTCATTTTCTACTATGAGCAGTAGTAAATTTAGCTAGTAACTTAATTCCTG
AGCACTCTCCAGTCTAGTCACTAGTAATAACGCAGTGTTAACTTTGTAATATTAATTATACTTAAGCC
TCTATTACTTGGTTTGTCAAATCAAATGATATCAATTTACTTCCAGCACATACCTATGAGGTAATTGTA
AGCTAATAATAACTTCCATGGCTATTCTTTTCTCTTTTTTTTTTTTGGAGATGGAGTTTCGCTCTGTTGC
CCAGGTTGGAGTGCAATGGCACGATCTCGGCTCACTGCAACTTCTGCCTCCCGGGTTCCAGCGATTCTCC
TGCTCAGCCTCCCAAGTACCTGGGATTACAGGCATCAGCCACCCACCTGGCTAATTTTGATTTTTTAG
TAGAGACAGGTTTCCCCATGTTGGCCAGGCTGGTCACGAATTCCTGACCTCAAGTGATCCACCCCATCA
GTCTCCACAGTGCTGGGATTACAGGTGTAAGCCACCGCACCCAGCCTCTCATCTTATTTTATTACTTA
TATTTTCTACATTATTAGAAAGTTATAATACTTATATGCACATTTCTTTAGCCCCTAACCCATTTTTTG
ATATTAGCTCTATTATTAAGATATTTAATGTCCACCTTCAGATTATATGCTGATGATTCTCTAATCGTTT
TTGGTTGTCTGGAGCTTTTTTACTGTTTATTTTTCAGGAAGAGCTCATGATAACTCTTTTTCTTTGGTTT
AAAAATGTTTATAATTATTTTTCTCTGGACTTTATGCTGAGAAATTTGGCTGCATACAAAATCTCTGGCT
TACATTTTTTCTCAAGTATTTTTTAGTGATTGCTTCATTATTTGTAGTATAAAATATTGCTCACAAGAAG
CTGGATGCCAGTCTGATTTTCTTCCCTCATTAGTGATTTGGACTTTTTGTCTGAATGTTGAATTTTTAA
ATATAAACATAAATTGCAATACTTTTATTAAGATATGTCTCTGCATTGAACATTTTAGGTCCGTTTTCT
AGGTACATAGAATGTCTTTTGAATATGTAGACTCAAATCAGACTTCTTGATTCTCTTGATTTATAGTTTT
AAATATTTGTTTGGGGCGGGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGCGGG
TAGATCATAAGGTTAGCAGATTGAGACCATCCTGGATAACATGGTGAAACCCCGTCTCTACTAAAAATAC
AAAAAATATAGCCAGGTGTGGTGGCAGGCACCTGTAGTACCAGCTACTCGGGAGGCTGAGGCAGGAGAAT
GGCTGAATCCGGGAAGCAGAGCTTGCAAGTGAGCCAAGATCACGCCATTGCACTCCAGCCTTGCGCACAG
AGTGAGACTTTGTCTCAAAAAAATAAATAGGGGGCGGTTCCAAGATGGCAGAATAGGAACAGCTCCAG
TCTGCAGCTCCAGCATGAGTGATGCAGAAGACAAATGATTTTTGCATTTCCAAATGAGGTACCAGGTTT
ATCTCACTGGGGACTATTGGACAGTGGGTGCAGGACAGTGGGTGCAGTGACCAAGCATGAGCCGAAGCA
GAGCGAGGCATCGCCTCACCTGGGAAGCGCAAGGGGTGAGGAAATCCCTTTCTAGCCAAGGAAAGGGG
TGACAGACGGCACCTGGAAAATCGGGTCACTCCCACCCTAATACTGGGCTTTTCCGATGGTCTTAGCAAA
CGGCACACCAGGAGATTATATCCTGTGCTGGCTCAGAGGGTCTACACCCACAGAGCCTCGCTCATTGC
TAGCACAGCAGTCTGAGATCAAATGCAAGGTGGAAGCGAGGCTAGGGGAGGGGCGCCTGCCATTGCTGA
GGCTTGAGTAGGTAAACAAAGTGGCTGGGAAGCTGGAAGTGGGTGGAGCCCACCGCAGCTCAAGGAGGCC
TGCCTGTCTGTAGACTCCACCTCTGGGGGACAGGCATAGCCAAACAGAAGGCAGCAGAAACCTCTGCA
GACTGAAATGTCCCTGTCTGACAGCTTTGAAGACAGTAGTGGTTCTCCAGCATGCAGCTTGAGATCTGA
GAACGGGCAGACTGCCTCCTCAAGTGGGTCCCTGACCCCGAGTAGCCTAACTGGGCACACCCAGTAGG
GGCAGACTGACACCTCACACGGCCGGGTACTCCTCTGAGACAAAACCTCCAGAGGAACGATCAGGCAGCA
ACATTTGCTGTTACCAATATCCGCTGTTCTGCAGCCTCCGCTGCTGATACCCAGGCAAACAGGGTCTGG
AGTGACCTCCAGCAAATCTGACAGACCTGCAGCTGAGGGTCTGACTGTTAGAAGGAAAATAACAAA
CAGAAAGGACATCCACACCAAAATCCCATCTGTACGTACCATCATCAAAGACCAAAGGTAGATAAATCC
ACAAAGATGGGGAAAAACAGAGTAGAAAAACAGAAAGTTCTAAAAATCAGAGCACCTCTCCTCCTCAA
AGGAACGCAGCTCCTCACCAGCAACGGAACAAAGCTGGATGGAGAATGACTTTGACTAATTGAGAAAAGA
AGGCTTCAGACGATGAAAATTTTCTGAACTAAAGGAGGAAGTTGGAACCCACGGCAAAGAAGTTAAAAAC
CTTGAAAAAGATTAGACGAATGGCTACCTAGAATAACCAATGCACAGAAGTCTTAAAGGACCTGATGG
AGCTGACAACCAAGGCACAAGAACTATGTGACGAATGCACAAGCTTCAGTAGCTGATTCAATCAACTGGA
AGAAAGGTTATCAGTGATGGAAGATCAAATGAATGAAATGAAGTGAGAAGAGAAGTTTAGAGAAAGAAGA
ATAAAAAGAAATGAACAAAGCCTCCAAGAAATATGGGACTATGTGAAAAGACCAATCTACGTCTGATCG
GTGTACCTGAAAGTGATGGGGAGAATGGAACCAAGTTGGAACAACTCTGCAGGATATTATCCAGGAGAA
CTTCCCCAATCTAGCAAGGCAGGCCAACATTCACATTCAGGAAATACAGAGAACACCACAAAGATACTCC
TTGAGAAGAGCAACTCCAAGACACATAATTGACAGATTCACCAAAGTTGAAATGAAGGAAAAAATGTTAA
GGGCAGCCAGAGAGAAAGATTGGGTTACCCACAAAGGGAAGACCATCAGACTAACAGCGGATCTCTTGGC
AGAAACTCTACAAGCCAGAAGAGAGTGGGGGCCGATATTACACATTCCTAAAGAAAAGAATTTTCAACCC
AGAATCTCATATCCAGCCAAACTAAGCTTCATAAGTGAAGGAGAAATAAAATACTTTACAGACAAGCAAA
TGCTGAGAGATTTTGTACACCACAGGCCTGCCCTACAAGAGCTCCTGAAGGAAGCACTAAACACGGAAAG
GAACAATAAGTACCAGCCACTGCAAAAACATGCAAAATGGAAAGACCATCGAGGCTAGGAAGAACTGCA
ACTAACAAGCAAAAATAAGCAGCTAACATCATAATGACAGGATCAAATTCACACATAACAATATTAACCTT
AAATGTAAATGGGCTAAATGCTTCAATTAAGACACAGACTGGCAAATTTGATAAAGAGTCAAGACCCA
TCAGTGTGCTGTATTCAGGAGACCCATCTCACGTGCAGAGACACATAGGCTCAAAATAAAGGGATGGA
GGAAATCTACCAAGCAAATGGAAACAAAAAAGGCAGGGGTTGCAATCCTAGTCTCTGTAAAACAGA

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CTTTAAACCAACAAAGATCAAAAGAGACAAAGAAGGCCATTACATAATAGTAAAGGGATCAATTCAACAA
GAAGAGCTAACTATCCTAAATATATATGCACCCAATACAGGAGCACCCAGATTCATAAAGCAAGTCCTTA
GTGACCTACAAAGAGACTTAGACTCCCACACAATAAATGGGAGACTTTAACATCCCCTGTCAACATT
AGACAGATCAACGAGACAGAAAATTAACAAGGATATCCAGGAACTGAACTCAGCTCTGCACCAAGCAGAC
CTAATAGACATCTACAGAACTCTCCACCCCAAATCAACAGATTATACATTCTTCTCAGCACCACGCCGGA
CTTAATCCAAAATTGACCACATAGTTGGAAGTAAACACTCCTCAGCAAATGTAAAAGAACAGAAATTAT
AACAACTATCTCTCAGACCACAGTGCAATCAAACTAGAACTCAGGATTAAGAACTCACTCAAAACCGC
TCAACTACATGGAACTGAACAACCTGCTCCTGAATGACTACTGGGTACATAACGAAATGAAGGCAGAAA
TAAAGATGTTCTTTGAAACCAATGAGAACAAGACACAACATACCAGAATCTCTGGGACACATTCAAAGC
AGTGTGTAGAGGGAACCTTTATAGCACTAAATGCCCCGAAGAGAAAGCAGGAAAGATCTAAAATTGACACC
CTAACATCACAATTAAGAAGACTAGAGAAGCAAGAGCAAAACACGTTCAAAGCTAGCAGAAGACAAGAAA
TAACTAAGATCAGAGCAGAACTGAAGGAGATAGAGACACAAAAACCCCTTCAAAAAATCAATGAATCTAG
GAGCTGGTTTTTTGAAAAGATCGATAAACTGATAGACTGCTAGCATGACTAATAAAGAAGAAAAGAGAG
AGAATCAAATAGATGCAATAAAAAATGATAAAGGGGATATCACCCTGATCCACAGAAATACAACTA
CCATCAGAGAATACTATAAACACCTCTACACAAATAAACTAGAACATCTAGAAGAAATGGATAAATTCCT
CGACACATACACCCCTCCCAAGACTAAACCAGGAAGAAGCTGAATCTCTGAATAGACCAATAATAGGCTCT
GAAGTTGAGGCAATAATTAATAGCTTACCAATCAAAAAAAGTCCAGGAGCAGACGGATTACAGCTGAA
TTCTACCAGAGGTACAAGGAGGAGCTGGTACCATTCTTCGGAACTATTCCAATCAATAGAAAAAGAGG
GAATCCTCCCTAACTCATTTTATGAGGCCAGCATCATCCTGATACCAAAGCCTGGCAGAGACACAACAAA
AAAAGAGAATTTTAGACCAATATCCCTGATGAACATTGATGCAAAAATCCTGAGTAAAAATACTGGCAAAC
CGAATCCAGCAGCACATCAAAAAGCTTATCCACCATGGTCAAGTGGGCTTCATCCCTGGGATGCAAGGCT
GGTTCAACATATGCAAGTCAATAAACATAATCCAGCATATAAACAGAACCAATGACAAAAACCACATGAT
TATCTCAATAGATGCAGAAAAGGCCTTTGACAAAATTCAACAACCCCTTCATGCTAAAACTCTCAATAAA
TTAGGTATTGATGGGACCTATCTCAAAATAATAAGAGCTATCTATGACAAACCCACAGCCAATATCATAC
TGAATGGACAAAACCTGGGAGCATTCCCTTTGAAAATGGCACAAGACAGGGATGCCCTCTCTCACCCT
CCTATTCAACATAGTGTTGGAAGTCTGGTTAGGGCAATCAGGCAGGAGAAGGAAATAAAGGGTATTCAA
TTAGGAAAAGAGGAAGTCAAATTGTCCCTGTTTGAGATGACATGATTGTATATCTAGAAAACTCCATCG
TCTCAGCGCAAAATCTCCTTAAGCTGATAAGCAGCTTCAGCAAAGTCTCAGGATACAAAATCAATGTGCA
AAAATCACAGGCATTCTTATACACCAATAACAGACAAACGGAGAGCCAAATCATGAGTGAACCTCCATTC
ACAATTGCTTCAAAGGAATAAAAAACCTAAGAATCCAACCTTACAAGGGATGTGAAGGACCTCTTCAAGGA
GAACTACAAACCACTGCTCAACGAAATAAAAGAAGATACAAACAAATGCAAGAACATTCCATGCTTATGG
GTAGGAAGAATCAATATCATGAAAATGGCCATACTGCCCAAGGTAATTTATAGATTCAATGCTATCCCCA
TCAAGCTACCAATGACTTTCTTCACAGAATTGGAAAAAACTACTTTAAAGTTTATATGGAACCAAAAAAG
AGCCCGCATTTGCCAAGTCAATCATAAGCCAAAAGAACAAGCTGGAGGCATCATGCTACCTGACTTCAA
CTATACTACAAGGCCACAGTAACGAAAACAGCATGGTACTGGTACCAAACAGAGATATAGACCAATGGA
ACAGAACAGAGCCCTCAGAAATAATGCCATGTATCTACAACGTCTGATCTTTGACAAACCTGAGAAAAA
CAAGAAATGGGGAAAGGATTCCCTATTTAATAAATGGTGTGGGAAACTGGCTAGCCATATGTAGAAAG
CTGAAACTGGATCCCTTCTTACACCTTATACAAAATTAATTCAAGATGGATTAAAGACTTAAATGTTA
GATCGAAAACCATAAAAACCCCTAGAAGAAAACCTAGGCAATACCATTCAAGGACATAGGCATGGGCAAGGA
CTTCATGTCTAAAACACCAAAAAGCAATGGCAACAAAAGCCAAAATTGACAAATGGGATCTAATTAACTA
AAGAGCTTCTGCACAGCAAAAAGAGAACTACCATCAGAGTGAACAGGCAACCTACAGAATGGGAGAAAAT
CTTTGCAATCTACTCATTTTGACAAAGGGCTAATATCCAGAATCTACAATGAACTCAAACAAATTTACAAG
AAAAAACAAACAAACACCATCAACAAATGGGCGAAGGATATGAACAGACACTTCTCAAAGAAGACATTT
ATGCAGCCAACAGACACATGAAAAATGCTCATCATCACTGGTCATCAGAGAAATGCAAATCAAAACCAC
AATGAGATACCATCTCACACCAGTTAGAATGGTGATTATTAGAAAGTCAGGGAAAAACAGGTGCTGGAGA
GGATGTGGAGAAATAGGAAGACTTTTACACTGTTGGTGGGACTGTAACTAGTTCAACCATTGTGGAATT
CAGTGTGGCGATTCTCAGGGATCTAAACTAGAAATACCATTTGACCCAGCCATCCCATTACTGGGTAT
ATACCCAAAGGATTATAAATCATGCTGTATAAAGACACATGCACACGTATGTTTATTGCAGCACTATTC
ACAATAGCAAAGACTTTGGAACCAACCCAAATGTCCAACATGATCTGGATTAAAGAAATGTGGCACATAT
ATACCATGGAATACTATGCAGCCATAAAAAAGGATGAGTTTCATGTCTTTGTAAGGACATGGATGAACT
GGAAACCATCATTTCTGAGCGAACTATCGCAAGGACAAAAAACCAACACCACATGTTCTCACTCATAGGT
GGGAGTTGAACAATGAGAACACGTGGACACAGGAAGGGGAACATCACACACCGGGGCCTTTTGTGTGGTT
GGGGAGGGGGGAGGGATGCATTAGGAGATACACCTAATGTAAATGACGAGTTAATGGGTGCAGCACACCA
ACATGGCACATGTATGCATATGTAACAAACCTGCCCATTTGTGCACATGTACCCTAAAACCTTAAAGTACAA
TAAAAATAAATAAATAAATAAATAAATAAATACTAGTTTGGCTGCATTGCTTTGATTTTCTTTTAGGG
GCCTGTTTATACATACAAAGGATACCATTTACCTGTCTTCTATATGACTTTCTCTTAAATCCTTTTATT
TTTTGTTTTAATTTTTATCTTCACATCCTTTATTTCTGTCACTGTGCTGTCCATAGAGTTTGTCTGCTGT
GTGTCCTTATAATTAAGTCTATGTTCTGAATGTTTTCTTTTTTAGAAATTCAGTTCTAAAGTGTTTAA
TTTCTCGTATTTTTTTTTCTGTTGCCTCACCATATCATTTCTGAGTTTTCTGTTTCTGAAATGTGCAACT
AACTCTTTCAAAGCATTGACCAGATTCTTCAGTCTTTTTAATTCATTCTGAAATAACTGGGCTACAGTTT
CATCTGCTTTGTGGACAGAAGTGCCACAAAGAGCCGAATTGTGAGTGCAGACCCACATGAATCATAGATC
TTAACGAAGTTTTTACTAACGACTAGCAAAGGATACAAGCTAAAAATGGGTACAAGCAAACACAGCATCA
TTCATCACTGTAAAGACTCTGAACATATCATGGAACCTCAAAGGATTCTTCTTCTTTGCTGCAATGTG
TTTTGATTTTTGGAGTGATAGATGTTTGCTAACTACGCACGTGACAAAAATTTGCTTAGAGGAAGCCATG
TTAGTTTTGATGCTACTCACTTTGTATTTTTGTAGTCATGAGATAGAAAGCCTGTGAGATTACGTGCCC
TTCTTTTAGCAGCTGCATCCCATAAAACTAAAAATTCAGTTTTGTTTTAAACCATGAACAATTTAGTCAG
ACTTAATATATCCTATTTAAACATTCTTAGATAAGAATTCCTTTGTTATTTTGCTAATATACAATCCC
ACCAATGTCTACAAGAAGGGCTAGTTAATCAATATACCAAAGATCAAATCTATTTATATGAACCACAAA
TACAAAACATAATTATACATATATAATTTTATATAATTTAATTTATAATTATATACATTTTATAGCAGCA
ATCAAACTATCATGTATTTTGGGATGAATTTAATAAAGAAATAGCAGGAGCTCTGTAGAAACAAGTATG
AATTCTATTGGAAGACAGTAATATCATAAAACATTAAGAAGAAAGCTATACCATGTTTATGGTTAGGAA

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GATTCATTATTGAAAATACATCAATTCTTGATAAATTGGTCTATAAATTCAGTGCGTGTCCAATCAATAT
ATTTAGCTCATTTAAAATGTATATGGAAAAGGCTAAGTACCAAAGATAATCAAATGCTCTTCGAAGATGA
AAATTAAAGTTGAGAGATGGGGTAAAAAACTATAATTCAGTTCTAAAGTCATAAAGCTATAATAATTAAT
ACAGTATGGCATTGGCATAGAAAATAAGCACATTGACTAAATAAATAGAAAATACAGTTCAGAAACCAACC
TCTACATTTTATGAAAACTGACCTATATCAGAACGAGCATTGAGACTACAGGAGAACAGAGGAACCTAGTA
AGTTAATGGTCCTGACACAATTGATATCTACATAGAAAAAAAACCTTAATCCTTCTTTACTCTATGTAAA
AACATAAATTCAGATGAATGTAGGACTTAATGGAGAGCCAAAACCTAAAACCTTTTATAGGAAAACATAGA
AAAATACCTATCTCAGGGTCGGAATTAGGTCTTCAACATGGCACCAAAAGTACTAACCATAAAAGAAAC
ATTAATAAAGTCAACCTTTTTTAAAATCAACAACCTTTAATTAATAAACCAGGGCCAGGCGCGGTGGCTCAC
GCCTGTAATCCCAGGAGGCCGATCACGAGGTGAGGAGATCGAGACCAGCCTGGCCAACATGGCAAAACCC
CGTCTCTACTAAAAATATAAAAATTAGCTGGGCGTGGTGGCGGGTGCCTGTAGTCCCAGCTACTTGGGAG
GCTGAGGCAGGAGAATGGTGTGAACCTGGGAGGCGGAGCTTGCACTGAGCTGAAATCGTGCCACTGCACT
CCAGCCTGGGCAACAGTGTGAGACTCCATCTCAAAAAACAAAAACAAAAACAAAAACAAAAACAAAAACA
AAACACAGGTTGCTGGAAAAATGGTTACTTATTTTTATTATGCTTTATAAAATATACAGTTATATTATCA
AACTTCTTTTGTAAAGATCAAATATTATGCTGAGAATATGGCAAGAAAAAAGAAAAACAACCTCCACCACT
CATAATGGCATTCCCTTTACCCACCATCAACTAAGTCAGGAACCTGCGTCACTTTCAAGTTTTCTGAAAT
GTGGACTGAAAATACTTGTGGAGGGCCCTCACAGATGCATTTAGAAATGGTATGTTCTGGAAAATGGAAC
TGAAATGTTTTAGCGAGAGTCATGGGCCCCAACCTTGAAATAGAGGTTGGTGGAGTTTTCTATAGTATGT
AATTACAACACAATAAGACTCAAAGCATTTCAATAAAGTGTGGGTGGAAGACAAGATACTGCTTCAAGG
GCTTCATTAGCTTTCTGCAGACTGGAGCTCTCCAAGGCATGGGGAGGAACCCCTGTTTACCTTTGGTTTCA
AATCAGTTTTTAACCATCATTTGAGGGCTAGGTGAGAGTGCAGCATTAAGTCCTTGGGAATACACTGGGTGG
GGAAAGAAAAGAGAGCAATGTTTTTCTAAAAGCCAGAAATGGGCTTACTGTGTTTACCAGTTGTTTCCA
GGATAATGTATTGCAGCGCCAATTGCTGATGAGATGGTAGGATTATACCTTCAGTCCCTGCTTTACATTTA
TTTCTTAAAGAAGCTTCTGGTAAATTAGAGCAATAGCATCGGCTTAGTTTAGTGTGTTCTGTTGGACTA
AGGATATCAGTTCTATCCGTATGGGCGGGCCTAAAGCCTGGGAAATATTTAATGAAGGGAGAGAGGGGGA
GAGAGTGAGCATGCAAAAGAGAGAGAGAAAAACAAATAACAAAACAAAAACCAAGACATTTCCCTTTATA
GTAAGAATGATGAGGAAAACATGTTTAGCCATACAAGATATCAAGATAATCTCTTATTCTTTCTTGAAA
ATGCAAGTACAAATGCCTGCAAAGATAAAATATCCTCTGGATGGAGTGGAAAGGTTTACCAGGCCTCTGA
AATCACGTGAATGATGTTGCGCTTTGCTGTTAATGAAGCTCGGTGCATTTTTTCATTTCAGTTTCTACTAA
GCATTTATGAGCTATTACCCTTCCCTTCCCTAAACTGCGTTGTTTTTTTAAAAGCCTTAGAGGCATTCCCT
TCTAGAAAATAAAGGTAAGTGTTAAGTGGTGATAATTTGGTAATAGGTGTCATGCTTGTGGTTCATAATG
TGTTACCCTACACATTTTCTCAATTATCCCTAGAACAGCTTTTTGAGGATATGAAGTTAGACCTTACAAA
GCACATCTTTCTGCTGGAAAAATGAGGTTTATAGTGGTTAAGTTTAGTTGCTTATGATCACAAGGCTAGA
GAGTGGCTGGAATCAAGACTCTTCACCCTGATTTTCAGTGCTTTTTTCACTCCACCATTAATATTTATTGTT
GATAAATAATATCAACACTTTCCCTAGGTGTATTAGGGTCATCTAGAGGGACAGGACTAATAGGATAGATG
TATATATGAAAAGGAGTTTATTAAAGGAGTATTGACTCACACCATCACAAGGTGACGTCCCAATAGGCC
ATCTGCAAGCTGAGGGGCAAGGAAGCCAATCTGAGTCCCAAAACCTCAAAAATAGGGAAGCTGACAGTGC
AGCCTTCAGTCTGTGGCCAAAGGCCAAGAGCCCCCTGGCAAACCACTAGTGTAGGTCCAAGAGTCCAAAA
GCTAAAGGATTGGAGTCCAATGTTTGAGGGCAGGAAGCATCCGTCATGAGAGAAAGATGGAAGCCAGAAG
ACAGCCAGTCTAGTCCCTCCACGTTCCCTCTGCCTGCTTTTATCCTAGCCACGCTGGCATGATGATGACAT
GGTGCCCGCCAGATTGAGGATGGGTCTCCATCTTCCAGTTCACTGACACAAATGTTAATCTTCTTTGGT
AATACCCTCACAGACACACCAAGGACAGCACTTTGCATCCTTCAATACAATCAAGTTGGCACTCAGTAA
TAACCATCACAAGTCCACACCTTGTCACCTTGATCCACATACATCTCCTTAAATCATACATAATCTCCA
AATACAGACAATAATGTCATAATTACACCGAACATAATACAACCTATCGTTCATAACAACAGAAATGCACC
AATCCCAAACCAATGTTATTACATAAAGTTAACAACACTTAAATGCTGATATGAAGTCAATAAATACT
TTTTTTTTTTAAAAGATGGAGTCTTGCTTTGTTGCCAGGCTGGAATGCAGTGGTGCGATATTGGCTCAC
TGCAACCTCCGCTCCTGGGTTCAAGCAATTCTCTGCCTCAGCCTCCCGAGTAGCTGGGATTACAGGCAC
CCACCGCCACACCTGGATAATTTTTGTATTTTTAGTAAAGACGGGGTTTTGCCATCTTGGCCAGGCTGGT
CTTGAACCTCCTGACCTCGTGATCCACCCACCTCGGCCTCCCAAAGTGGTGGATCCCAAAGTGATCCACCC
ACCTTGACCTCCCAGGTTGTAAGCCACTAAATCTTATGTCACATGATACAGGAAAAAGAAAGGAAGTAAA
ATGAAGATATTGCTTTAGTACAAGTGTATACATGCAGAAAGATGTTCTTAACAAAATAAGGAGGAAATAC
TCATGACAATTACAGTAACCTGGTTGCTGCAACTCATCACATGGTTCGTAGCTGTTATTGATGACTACCTT
CTTCTACAACCCATTCTGTTTTCCCTTTGCCTCTAGCAAGTACCTCAGCAGGTGATGGTTCTTTACCTGG
TGGAGTGTCCCAAACCTTCATTCCCTGAAGGGTCTGGGCCATTTGTAGTCCCTGCCTGGATCGAGTTGTTGT
CATTTTTTATTGACCTTAATCACAGGGCATGGTAATACTAAGAGACACCCTAAGGAATTTCCCTGTATTCC
ACACATATTCTTCTTACCTTCATTATGGAGTAGCAGACTGAGTTTCATCTTGATAGGCTAAGTCAGTCAC
CCCAGCCAACTAACTCCTTTCTTAGCCTGTTGACTTAGAGGTAGGAGGAGCCCCGAGATTGCAATCTTA
ATTTCCAGTTTAATGAAATCATTATTGTGTCCTCGGCGGCAACATTCATCGCCCTGGAACCTGAGACTTC
TAGGCCAGCAGAACGTAATGCTGTGGAACAAGAAGCAAAAATTTTACTAGCGGGTCTCTAGGGGTGATGG
TGAGTGGTGCCACTTCCATTTCCACCCCTTGATTCTGGACCCATGAATCCTGGCTATGGGAGAAACAGT
ACCAAATACTGGACACTGATCCGGAGCCTACACAGCCTTCTCGAAAACCTTGCCCCAGCCCTGCAAAGTA
TTGTGCGCTAGTTGGCATTGTAATTGTGACTTCAAAGGCCATTCCACCGTTCTATCAATCCGGCTGCTT
CAGGATGATGGGGAACAGGGTAAGACCAGTGAATTCATAAGCATGAGCCCACTGCTGCACTTCTTTAGC
CATAAAGTGAGTGCCTTGTTTCAAGGCAATGCTGTGTGGAATGCCATGACAGTGGGTAAAGCATTCCATA
AGTCCATGGATGGTAGTCTTGGCGGAAGCATTGCTGCAGGATAGGCAAAACCATATCTAGAGTAAGTGC
CCATTCCAGTGAAGACAAACCACTGTTCTTTCTGTGATGGAAGAGGTTCAGTATAATCAACCTGCCACCA
AGTAGCTGGCTGATCACCCGAGGAATGGTGCCATATCGCGGCCCTCAGTGTTTGTCTCTGCTGCTGGCAA
ATTGGGCACTCAGTTGTGGCTGTAGCCAGGTCAGCCTTGGTACGTGGAAGTCCATGTTGCTGAGCCCGTG
CGTAACCTCCATCCCTGCCACCACAGCCACTTTGTTTCATGGGCCTATTGGGCGATGACAATGGTGGCTGG
GGAAAGAGGCTGAGTGGTATCCACAGAACGAGTCATCCAATCCACTTGATTATTAAATCCTCCTCTGCT
GAGGTCACTTTTTGGTGAGCACTCACATGAGATACAAATATCTTCACAGTTTTTGACCACTCAGAGAGGT

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CCATCCATCCACATACCTCTTCCCCAAATTTTCATTGTCATCAGTTTTTCCAATCATGCTTCTTTCAAGTCC
CTGACCATCCAGCCAAACCATTGGCTACCTCCCATGAATCAGTATATAGTCACACATCTTGCCATTTCTC
CTTCTAAGCAAAGTGACAGCCAGGGGCACTGCTCAAAGTTCTGCGCATTGGGAAGATTTCCCTTCACTG
CTGCCCCTCAGGGATGTCTAGAAAGGGGCTGTAGTGTGTCAGCTGTCCACTTTTGGGTGGTGACTGCAT
CATGCAGAGCCATCTGTAAACCAGGCCCTTGTCTTCTCTTCCCTCTGTGTCAGCTTATCATAGGGAACCTCCC
ATGAGGCCATCAGTGCAGGCTGGGGGAGAGAAGGCAGGGTGGCAGGAGTGGGGACCATGGGCATTTGAGC
TACTTCCTCATGTAAAGTACTTGTTCCTCAGGACTTGCTTGAGCCTGATCATGTATATACCACTTCCAT
TTGATGATGGAATGCTGCTGTGCACAACCCACTTTATGGCTAGATGGGTCAAAAAGCATCTAGTTCATGA
TAGGCAATTTAGGTAGCTTGGTGATTTGATGACCTGTAGTCAAACATACAGTTTCTACCAAAGCACAGTA
ACAGGCCAAGAGTTGTCTCTCACAAGGAGAGTAGTTATCTGCAGGAGATGCAGGGCCTTGCTCCAAATTC
CTAGAGGCCTCCCCTGTGATTGACCTATAGGGGCTGCCAAAGGCTCCAAACAACATCCCTATCTGCCAT
TGACACTTCAAGCACCATTGGATCTGCCAGGTCTATATGGCCCAAGTGGCAGAGCAGCTTGCCAAGCATTC
TGGACCTGTTGCAGAGCCTTCTCTTCTGGATCCCCTCAAACTGGAAGCCTTTCAGGTCATTGATAAA
TGGGCTGGAGTAACACACCTAAATGAGGAATGTGTTGCCTCCAAATCCAAATAGGCCCCGCTAGGCATTG
TGCTCTTTCTTAGTTGTAGGAGGGGCCAAAGGCAGCAACTTATCCTTCATCTTAGAAGGAATATCTTGA
CAGACCCACACCACTGGACCCCTAGAAGTTTTACTGAGGTAGAAGTCCCTAAATTTTAGTCAATTTTA
TTTCCCAACCTCTGGCACACAAATGTCTCACCATAAATCCAGTATGTTTGCTACTTCTTGCTCATTGGA
TCCAATCAGCATAATGTATGAATATAATGGACCACTGTGATATCTTGTGGAAGAGAAAACTATCAAGA
TCTCTCCAACAAGATTATGACACAAAGCTGGAGAATCGATATACCCCTGAGGTAGGACAGTAAAGGTATA
TTGCTGGCCTTGCCAGCTGAAGGCAAATTGCTTCTGCTGGGCCTTATGGACAGGAATGGAGAAAAAGCCA
TTTGCCAAATCAATGGTTGCATACCAGGTACCAGGAGATGTGTTAATTTGCTCAAGTAATGAACCCATAT
CTGGTCCAGCAGCTGCAATTGGAGTCACCGCTTAGTTAAGCTTACAATAATCCACTGTCATTTTACAAGA
TCCATCTGTCTTCTGCACAGGCCAAACAGGAAAGTTGAACGGGGATGTGGTGGGAATCACCACCCCTGCA
TCTTTGAAGTCCTTGATGGTGGCACTAACTTCTCCAGGGAGGCAATGTTGTGTTTGATTTACTATTTTT
CTAGGTAGAGGCAGCTGTAATGGCTTCCATTTGGCCTTTCCCACCATAATAGCCCTCACCCTACCAGTCA
GGGAGCCAATGTGGGGGTTCTGCCAGCTGCTAAATATGTCTATGCCAATTATGCATTCTGGCACTAGGGA
AATGACCACAGGATGAGTCTGGGACCCACCAGCCCCACTGTAAGTTGGACCTGAGCTAAAAATTCATTAA
TTAACTGATCTCCAAAAGCCCCCTACTTTAACTGGAGGACCACGTGATGTTTTGGGTCCCCTGGAATCAAC
GTCAGCTCAGAGCCAGTGTCCAGTTGTCCCTGAAATGTCTGATTATTTCCCTTTCCCAGTGCACAGTTA
CCCTGGTAAAAGGCCAGAGGTCTCCTGGGGGAAGGATGGGAGAAAGAGTCACTGCATAAATGTCTAGCAA
TGTAAGTGGGGTCTTCTCAAGGGGACCCAGCCTCCCCTTCATTCAAGGGGTTCTGGGTCTATAAACTGG
TTCAAGTCTGCAAATTGATTGAGGGGCGGTGATTCTTTGTATAAATTTTAAATTTAAATTAGTCTTTTGT
TACTTGACCTGGAAGTTTTCTGCTTATATAAATTAAGCAAGAATGCAGTAGGCTTCTGTCAATTTCACT
TTTTAGGAACACTGAGATTAAAGTAGCCAATGCCAGAGCTCTACACAAGTCAGACTATTCTGATTGTTGCC
TTGCCCTCCGCTGACCTTTACGGTAATTGCACCCACCTTGCCCTTGATGCTTGAGTGCCACCACTTCGCCCA
TGCCACCTCAGGATCCAATTATTACCATTGTATTTAAATTTTGTAGTTGAATGACTGTGGTTCCCCTAT
AATATCTAGCATGCAGAGAAGAGCAATCACAGAGCTCTCAAGGATGCAGCTGCTGCCCTCACAAATCTA
TTTCACAATGTGCTGGTCAAAGGTATATCTTCTGTACTCTCCAGCTGGGATGAGTAGGACTAAAGTGAC
GAATTCACCTCCACCATCCCAATCTCCATAAGCCTTTGGATCCCTTCCTCTACATTAAACCAAGGGAGATC
AGGCATTTCCAGCTCACTCACAGTGGGCCACCTTTTGATCTATATTTAGCTAACCAAGCAAATAAACTA
TTAGAACCTTTTTTAACTCTCCAAGCTGCAACATTAAATGCAGAATTCCTGCTTAGTGGGCCCAAATCAA
TCAATTCAGCCTGATCCAACCTTATGTTCCCTTCTACCATTAGCCACACCCTTAATATCCATTCCCATGC
CTGTTCTCCAGATTTCTGCTTATATAAATTAGAAAACCTCAAGCAGTTCTTTTGGAGTGTAGCGCACCTCC
TTGTGGGTACATTTCTGAACCTCATCTCTAAGGGGCTGCCGGGACTTTAGTCTAGTTCTATAACTATAA
GCAAACAGGGGTATTGAGGGTGGGTCTTAGGAGAATCAACATCGTCTTTCTGGCAACTGCCTCAAGGG
AGGTCATCGCTGATGCCTTAGGCAGTGCAGGGTTAAACTCCTCAGACAAAGGTGAAAAGCCTGATGGCAG
CGCAGGTGGAGGAGGGGATGTTGCCCTCCCCTCTGTTGCCTGTTTCTCTGGTAAAAAAGATTATCAGAA
TTTAGAAGCTCAGTGCCCCCAGCCTTATCAGGGTCTCCCGCATGGCCCCATTCCAAGTTGCAGGGTACC
ATTCTTTTTCAATCAATGCTGTCACTTTAACAGTAAACACCTGGCAAGGCTGTGCACGTACCTTTCTGTG
CAGGTACGCCACTCACATGATAAGAGCTTGTGTCTGATTTTCCGCAATTTAGCTCTTTCTCTACAGGAG
ATAAGACTCGAACCCAGGGCAATCTTAGAAGATTTGAGGCTCAGAATGTGGTTCTGGAGCTGGGAGATAG
AATCCCTGAGTTCATCATTTTTTTGTTTTATCACTTTGATTAGTGAACCTTAGGAGCAACCAACTAGCTT
CATTATATTCCTTGGTTCTCCACATATGGTCAAAGGTATTAGGTATAAAGTCACTAAACTCCTTGCCCTCT
CATGAGCAGTGAATCAGGAGTATCAGATGCATTTATTTTGCACAACTCTCTACACAGTTCACAGCAAGGA
CTATCAGTGTCTCCACACTATTAGAAGTAGAGTCCCTAGCATTTTGGCGTCTAATCATATTTAGCAGCC
AACTCCAGAAACCCCAAAACCATCTAAAGAAATCCATCCTTAAAATTCGTTCCTCTAGAACCCTCCTG
GTACCAAAATCTGTATTAGTCAGGATCTCTAGAGGGACAGGACTCACAGGTGAGATGTATATATAAAAG
GCAGTTTATTAAGGAGAATTGACTCACACAATCACAAGGTGAAGTCCCACAATAGTCTGCAAGCTGAGGA
GCAAGGAAGCCAGTCCAAGTCCCAAAACCTCAAACTAGGGAAGCCGACAGTGCAGGCTTCACTCTGGCT
GACAGCCTGAGGGCCCCCTGGCAAACCACTGGTGTAGGTTTAAAGAGTTCAAAAGCTGAAGAAGTTGTAGTC
CAATGTTCGAGGCCAGGAAGCATCCAGCACAGGAGAAAGATGGAAGCCGGAAGACTTAGCCAGTCTAGTC
CTTCCATGTTCTCTGCCTGTTTTTGTCTAGCCATGCTGGCAGCTGATTAGATGGTGCCCAACCCAGATT
GAGGATGGGTCTCCATCTTCCAGTCCACTGACTCAAATGTTAATCTCCTTTGACAACACCCTCACAGACT
CACTCAGGAACAATACTTTGCATCCTTCAATTCAATCACATTGACACTCAGTATTAACCATCACCCCTAGG
CTTTAGGGATATAGGGAAAAACATGACTCATTGCTGTTATCTGAGAGTACATAATCTATTGGAAGAAAGG
AAAACAGTTACATGTAAGGCTTATATCAGTATAAATTAGATAACTGCCAAGTGAGAGAGGTAGAGGTAGC
AAGTGCTGTCTGTGGGTGCATGTTAACTCAGTCTTAATCTTGGAAGAAGTGGCAGTGTGGAATGGTACAT
GGAGAAGCAGAAGGGACAATTACTGTGAGCAGATGAATGGCTCACTACAGGGGCATGGGAAGAAGATGCA
AGAGCAGTGGAAATCTTTAATTGACGAACCTGGTACCAAGCTGCCAAGTCTTAGTCTCAGGACTGGCACC
TGCACTTGGCCATTGAAAAGACTTTGGAACCTGTGGAGTGAAGAGTTGTAGGAATTTTCAAAGCCTCAGT
GTAGGAACAATGTGAGAATCAACCAGGGCATGGTACTCCACACTGTGTTTCAAGATCCACTGGTGTAGGGG

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AGTCCCAGAGAGGCCTCTTAGAGGGTTGAGGAGGATGGGATCAGGCATAGCAGAGACTAGGGACACGAGG
CTCTGCGGCCAGACTGCAGGTCTGCTACCAACTACAGTGTGATTTTGCCTAGTCACATAATCTCTGTGGG
CCTCAGTTTTTTGTTTTTTGTTTTTTTCTATTACAACAGTACCTTTCTCGTGGAGTTGTAGTGATTAGAT
ATCTAGTACCAAGACTATGCTTGTTAGCACTGAGTAAGAACTCAATGAAGGTTAGCTTTCATTGGTACTA
TATTACTATTGTTAGTGTGGTGGTGGAGCTGAATCGCCTAACCTATGAGGTTGGTGCTGAAATGAAGAA
AAGAATAACAGTGTTTTAAGAAGTTTGGTCACTAGAAAGTGGAGCTTAGTAATTAAGAAAAAGAGTGAAC
ACTTTTACCTTCTTGTGGAAGTTAGTAAGTCTACAAAATGTTAATTCTGCATTTGAATGATCATTGGA
GACTCTTATTGTCCTATTTGCACTGAAAAAGTCACTGAATCATTATTTTAGAACTGGAATAACGCCTGAG
ATCTAGGCCAGCACTTTGCAAGTTGTGCTCTATGGGACTTTTCATGGAAGTGGCTGAGGAGTTGCCTTGA
AGGAAGGCAGAGGGAGTGGGTCTTGGGACACCCTTCCAGTTATAAAACAGGACGTTGATTCTGTTTTGTA
GTTGCAGCATCACATATAATTCATTTATTAAGAGGATCCCACTTCTAAAAATAAGTTGAAAACCACTGA
TTTAATCCAGCCTCTCTGTTTGCATATGAGGAAATGGAATTCGGAAAGGTTAGGTGATTTGTCCAAGGT
TGCAGACTAGACTATTTATTAATAGAGTAGGGTCAGGAACAAAAGCCTGCTCCTTGTGTTCCAGCGCCT
GTTACTAGTTACATAATGAATGCTACCTATTGCTGCACAGTGCCAAATCATTGCACCTTTCAGATTTTAC
TCTAATCAAAAGAAAAAAATTAAGTGCACCTTCCAAATCAGTACTTATATGCAAGAGCTTCAAGAAACAA
ACTAGTATTTAACTTGGTGGTTACATATTGACTGTATTTTCATTGAGTGAGGTTAGAAGAGATTGAGAAG
CGTGAAATGAAGTTACAAAGTAGAACTATATGGTGAATCAAGGCAAAGATTGTCCATAGTAAAAGAAG
ACAAAATAAGAATGAAAGAGACAAAAGAATTGCCAATGAGTTGTAATCTTAAAAGAAAGATATATTTAAT
AAAATAGGATTGATTGTTTTGAATGTGGGCTGAGAAGTCTGCCATCTTCCATTGACTCTGCTCACAGGC
CTTGTGTTGTGAAGTGGCTTCCATGGATAGCATTACTCTCTGACAGCTGCAGCTCCAAATTCAGCATGAA
AAGGCTGGCAATTCTAAGAGGAAGGGAGTGTGTTAGGCCACTTTTAATTCTACTTTGTGATTGCAAGTTTC
TTGCATTGTTTGGCATTGTTGGTCTTCCCTTACTGGATTTCAAACTAGAACACTTTTTCCTAGCCTTGG
AACCAACCACGAAAATAACCACCTCTTACCCTCATGAAGAACACTTTAAATTTTTCTCTTTTAAAAATGA
AGTCTGGAATATCTCCAAACATCTTGTCACTCACGCCTTCATTTAAATGTCACCCTCTCAACCACAAGGA
AACTAAAATGCCCCCTACTTGCTACTCCCTGTTTTATTTTCTAGTAGAACATACTACAGTTGGAGATCA
TCTCATCCATGTCTTTTATTCTTGTCTCTTATTTGCCTCTGCTTGACTGTAAGCTCATGGAAAGTAAGGG
ACCTTCACCAACTAGCAAAGTGCTTAGGACCTAGTAAGAACCTGGTCAATTCTAACTGAGTGAATGACTG
AATTCCTGTGAGAAGTCAACATGAAAATTCCTAGGTCATTAGTTTAGTTATTGGAAGTCCAACACTGTAT
TGGAAAAGTGTGATGGAAGGATAGTTAGTGGATTAAGGTTTTTTTATAAGAGGAAGAGGGAAAGAAAGGC
ATTGTCCTTTACTTCAGGCATTTCAATGGCCATGATGGAGCCTAAATATTGTATGTTGCATTTTGTGTTTGG
TTTTGTGTGCACAAGAGCTTTGACAGTGAATGAACGGGTAAAGAAATGTGAGTTTTCTTTTCGTCCTGC
TATAGAGACTTAAGGAATTGCCCCGTGTGAGTTCCCTTGGGGCAGAGAAAAATACAAATCCATGAATACC
TGAAAGCCCTGATTTGGCCCCTAAGCAATCTATGCATGTAACAACATTGCATTTGTACCCTGTACATTTA
TAAACATTTTAAAGAAAAGTATAAGAGAAACACAAATTTTGGTTACTCCTCTCTGAAAAGTCTCTGATGT
CGCTTGGCCGGGGGAATTAAGACCTCTTCCCTGTGGCCTGTGGCCACTATGTGCTCCCGGCTCTCCAGGCT
CATCCAGGGCCACTGTGCTGGGTCACAGGGTTCAGGATGTCAACCTTCTTTCAGCTTCTCTGACTCC
TCAAGCATTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGCTTCCAAGACCCAAACGCATGTCTCTTCTTGG
CACACTCTTCCCAACTTTTTTCCCTGGCTAATTGCTAGTTATTTAGTTTGAGATTAAATGTCACTCCCTCG
GCCTGGCGCGGTGGCTCACGCCTGTAATCCCAGCACTTTCCGACGCCGAGGCAGGTGGATCACGAGGTCA
AGAGATCGAGACCATCCTGGCCAACATGGTGAACCCCGTCTCTATTAAAAATACAAAAAAATTTAGCCA
GGCGTGGTGGCATGTGCCTGAAGTCCAGTTACTCGGGAGGCTGAGGCAGGGGAATTGCTTGAGGAGGAT
ATTGCAGTGAGCTGGATCGCACCTCTGCACTCCAGCCTGGAGACAAAGTGTGACACCATCTCAAAAAAA
AAAAAAAAGTCACTCACTCACAGAGGGCTTCTCAGATACTCCCTGCCCCCTCATTTAAGTTGC
ACCGCTTGTGTTATTCTCTTATAAGCCCCATTCTTTTTCTTCTTGGCATTGATCAAATTAACAGCTTTAT
TTTATTTTAGCATTGTGAGTGTATATGTGTGTTAATGTCTGCTTCTGACTAACTGTACCCTGCAGGA
AGGCAAACTGTGTCTGTGTTGCTCATTGTTAAACCTTCAGCACTGAAGTCACTGCCTCGAACATAGGAG
ATTCCAACCTCAATATTTACTGCGTGAAGGAATGAATGAATCTTTATGTCCCTCGTGCCTAACATAAAGTC
TGCCATATACAATGGACTAAAAAATAGTATTAGCTAAAACTGAGTTACGGAGAAGATGAAGTATTAATT
GTATTTTTTACAGAGAAACAATGGTCAGTGTATCAAAAATAGAGACCTGCTCTCAGATATATAACATAG
AACTCTCTTCATTTCATTTGCCTTCATTTTAGTTAACAGAATCTGTTTCATCTAAGTAGAGCAGAGAAAAAC
TTCATAATTGCTGTGTCTGTGTTATTCCAAAACATTTAAACAAAAGGTGAATAACTGAGGTATTCTTCCC
TGTGGTACATACTTGATGTGGGCATTTTAAAGATTGATCAAATCTCCTTTCAGCTGGATATTTGAGTAG
GCACAACCATTACAGAATTTTCTCTAGGGACTTACTTTAGCTCTTAACTATGTAACTGAACAAGCAA
ACTCAAGTGGATCATTATCTATAGAAGTATAGAATTCATCTCCCTTTGGCAAACCATTCAAACCCAGAA
GTGTGTTTTACACATTCTGACAGAAGCATCTGTAATAACCAACTCTAACCTCCTTTCTTACCCTTTAGC
ACCCAAAAGTATAAGAAAAGAGGACATGTTAAGGCTTGTCTATTTATTAGAAAATATATAAAGAGTTCT
TGGCTTAAGAACTCTTCTGGCTATCAGCTCCCTGATGTGAAAAAAGTAAATAGCAAGGGGTAGCATGGAG
TCTTACTCCCGTGTGACAGACAGCTTAAGAAAGACAATTGGACATCATGTGACTACATGATTCAAGCTAA
AGTCCAGACACATCTTTTCATAGGCCAATTGAACATTTTCTCTGTAATTTCCACAATAACCATTGTCAC
CAGCATGAATGGAGAGGGTCTGAGTTCTTCTGGGTGAGTAAAGGGTGTGTGAGTTATCTGTCTCTGTCA
CCAGGATTTAGAGGCAGGCTCATAGTACTCTGTAAAGTTGAGGTTTCGCTGTGGAGGCTGCAAAAAAG
AGGGAGGAAGAGAGAGTGAAGTTCTTGGCTCTGTGCCAGGGATGTGATTAGAGGACCCTGGGAGGGC
CTTCATCCTACGAGGGGTGGAAGTGGAAATGGATGTGTGTGGATGACCTGGTAACGTGTACAGCCCCT
TCCACCCCATAGTAGTCAGGGATTTAATGCCTCAACAAGGCAGGTCTCTGAAGGAGACTGACTTTTCTCT
CTCTCTCTGAATGATACTGCCTGAGAGAAATACTCACTTCCCTGCTTTGTTTTCAACAAGTATGGACTTCC
TTACACAAAAGAATCTTTTTTGTCTTTTGTCCCCCATTTCACTGGAAATCTATCCACTGGGCACCCTG
TTGGTTGGCTTTCCTTTTCATAGATTCCCTTTATGTTTCAAATTTTAAAAAGACAATAATAGCAACAAAGTGA
AATATGGATTTAAGCTAGGAAAAGCAGAGAAGTGAAGTCTTTTCTGCAATCATACTTCCCAGCTTCTT
CAGCAAGATCTGCTTGGCTGGGAACATGCCTTCTGAGAAGTTTACATTTCTAACTGCTGCTAAATTGCT
CCATGCATTTATTCCTCAAACCTCTCAGGGAAGATAGCACTGGCTTTCAGTCTCATACCAACCATTCTTAA
GGTAATGGACCAAAAGTCATTTCCACTTGAAATATAATCCTTCTAAATGAATCATGCAACATGGTTTTTA

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CCTCCATTTTTTTCAGAATAACTCTAAGATGATGATCCTCTGGCCATATTTTAAAAATTTCTCTTATTTGT
TTTAATTTTCTTCCATTTTTTCTTTAATTTTGTATCCAGACACTGCCCTTCTCTAAGAGGAATGACATTTT
TGCGGGTTATCATGATATATTTTTAGCCCATTTGCCCTTGACCCATAGCTTACAACAGTTAAAGAACACTA
ACATATAAACATAGAGTTTTGCCCAAGGCCATTAGCTTTGCATGTTAACAAGTGGGCAGAAGGAAGGCTG
GGCATGAGAGAGACATGCTGTCCCTTCTGGTGAGATCATCAATCCCATTTCTTGTAACCTTCAGATCATTGC
ATTTGTTTCAAGATCGTCTGCAGAGGAAAACATCTCAAAGTTGGGAGGTTGTTGAAGAGTCAGAAACAAAT
GGGTCCCTGGGTAATTTTTTCAAAACAGGCTTTTTTGTCAATTGTCAGTCAGCTGTTTAATATTGTCAATTGT
CACTCAGCTGTTTAATATTGTGCTTTGTTATAAGGATAGGCACTGTGGTCTCAGCGTTCTTAAGCTTTTA
CATTTCCGTTATTTGGTTTTACTTCTGCATTAGTAGAGTAGATGTAGAGTAGATGCCACCTCTAGGAACT
CTACCAGCAGCAGCATCTTAGACTAGAAGCTCCCTCTCTAGGACTATAATCTCTGTAGCCTCCACTTCTC
CCACCCCTTATTTCTTCTGAGCCTACTTGGTCTTTGATACTTACTATAATACTTTCTATTCTCTTATCAT
AAACAGTTTTCTGATTTTCATTTTCCCTCTGGTTTCATACTAAGCCCCATAATCAGTCAGTCAAGATTACC
TTCTAGAATTTCTGTGCCCTCAAGTTTTCTCCATATCTAGAGAGTCAGTCATCTGCCTTGAGCCACATCC
ACTGTCTACTTTCTTCACTTCCATCCCCAGGCTGCCAGCACTGATGAAAACAAAACAAAACAAAACAAAG
CAAAACAAAACAAAACAAAACAAAACAACTGACTAGGATCTCAATCTGGTTTGCAAATCCATGCTTCTCTTTCTT
GACTTCTTTAGACATCAACAGAATTGACGCCTCCTCTTGACCTGGGACACCCCTCCTCCTTGGTGCTTTT
TTCTACCTCCCCCTGCTTCTCTGTATGTCTTTTGAGGCTCATCTTTCTCTTAGGCTGTCTTCCCCCATC
TCTCCTCTCCCTCTGTGCACTCAGGCAGTCTCCCTTGTCAACCCCCAAAACCTGCTTCTCCAGACCCCACT
GTTTTCTCTGAGCTCCAGGTCCACAATTCTCTAAGGTCCATGTGGATGTCCCTCACCATTTCAAACTTCTC
TTCCACAGGGAGTCCCTGGTTTTTCACTACCATAGCATATTAATAATACCATGCATTTCCCTTCATACCCT
AATTACAACCTTTGTTTTCTTTTTTTTAAATTTTATGTTTTAAAAATTATCTTCTGCCACATATATTGTAA
GCTCCTTTTGAGAAAGACACATTGCTGTCTGGTCACTACTATATTCTTATCAACTAGCAGGGGCCGTGG
TCGGGGCTTGTGTTAGTCCATTTTGTGCTGCTATAAAGGAATACCTGATGCCAGGTAATTTATAAAGAAA
ATAGGTTTTATTTGGCTGAGGGTTTTTGCAAACCTGTACAAGAAGCATGGCGCCAGCATCTACTTCTGGTGA
GGCCTGAAGCAGCTTTTACTCATGGTGGAAGGCAAAGAGAGAGCAGGCGTTTCACACAGCAAAGGAGAGA
GCAAGAGAGATGCCAGGCTCCTTAAACGACCTGCTCTCCCATAACTGAAAGAGCAAGAAGTCACTCATT
ACGGTAGGATGGCACCAAAACAGTTGTGAGGGATCCACCCCGAACACCTCCACCATGCCCCACCTCCAA
CACTGGGATCAAATTTCAATGTGAGATTTGGAGGGAACACACATCTACCCTTTATCAGTGCTCAATAAGC
TCGCTGAATGTAGAACAGTGATATAAGGCAGGGGTGGGCCAAGTATAGGCGACAGGACAAATTTGGCCTG
CTACTGCTTTTGTAATAAAGTTTTATTTATTTACAAAATAAATAAATAAATAACAGTCATAATCATTGGT
TACATTTTGTCAAAGCTGCTTTTGCAATTAACATCAGAGTTGAGTAGCTGCCACAGAGACTGTAATGG
CCCCACAAAGCCTAAATAGTTACCCCGTGGTCTTTTACAGAAAAAGTCTGATATAAAGGACAGTCTCAC
AGCACAGAGGAAAAGCATATAACCCAAAGGAGGAAAGAGTAGAGCATAGTGGACTGCAGAGAAGTTTCCC
TGGACCCAATCTGTGCCCTTGAAAGATGAGAAGGACACCTCCAAAGGCAGGATGGGGGTGAGGTGGGGTGG
GCGGTGGTGATCCAAGCAGACAGCACGGGCAAGTGTTCTGGAAAACCTTGCCCTTTGTTCAAAAGTATCCTG
CAGTATAAATTGCAAGGTGGGCAGTAAGAAATGGACTTGAAGAGATTGAACAAGGGCCAGAAACCCAAGG
ACATTGCTAAGGAGTTTGTGCCCTTAGCCCATCCAGGGCCCTAGCAGCCTTGACTGATGCTTCTGAGGTCC
TGGAGGCTCCAGGCTCAGGCTACCTTCCCATATTCTCTGAAAATAATATCACATTTGTTTAGTAAAAAA
TTGTTTACTAAAAAATTAACCTCTCAGAATTTCTGCATTACATTTATTTCTTCTCATATCCTCGAGTTA
GAAAAAGGTATTTCTCTCCTGTGATGATATTGATTCTGCACTCATCTATTTTCATTACTGTCTCCTTCCC
TCCCTCCCCTCAGTCCCTCCCTTAGTCTATCTCACTCTACCATCTTTTCCCTTTGGACCTTCTGACATTCAA
CATCTTGGTCTGCTCCTATCCAGCCACACCTCTGACCATTCAACCATTTGTCTCTTGGATTGGTTCCACCT
TGTCCTATCACGCTGGATATGCTGTTGCTCCCAAATTGCCTCCCTCTGCCAGTTTCTCGCCCCCTTCCCTCC
TTCTGTCTCTCCCTCTCTCTTTCAATCTTTCTCTCCCTCAGTCTCTCTTTCTCTTTCCCTCTCTCTCAAT
CTTTCTCTTCTCAGTCTCTCTCCCATTCTCTTTCTCTTTCTCTCAATCTCTCTCTTCTCTCTCTCTTA
TCCTCTCTTTCTCTCAATCCCTCTCTCCCTCTTTCTCTCTCTCAATCTGTTTCTCTGTAAATCTCTCTTT
CTCTCTCCTTCTTTCTGTCTCTGTCTCTGTCTGCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCAAT
TTGCTTTCCCAGTTTCAGTGATTTCTATTAGATATCTCCAAAATTTGTATTTCCGGATATTTTATGCTT
TCATGGAGGCCGTGTAAATTGGTATAACCTTTTTGGAAGGCGTTTGGCAATACTTAGTAAAAGGTAAA
TGTTTACACCCCTTGATTCTGCTATTGTATGTGTAAGGATTTTTTCTGCATACTTTTGTAAAGTGTAGAA
AATATATGTATAGGAATAATTGCACATTGTTTGTGTAGCTGAAAATTACAAATAATATAAATGCCTATA
ATCAGAGCAGTTAAATACATATGAACACAGTGAATACCAGGCACCTCATTTAAAAGATGAGGTATATTTT
AACAAAGCCTATTTGAAAAGATACCCAATCTTAGCAAGTGAAAAAAAACCTCATCAAATTGATATATTTAG
CGCTGTCCCTCTCTCAAGTTTTCAGACCCACATTTTCAATTTTCTGTTGTCTCTTTGACTTAGTCTCGTGA
AATTTTAACTAATCATTTTTTAAAGGAAGATATTTTCTTCCCTTAAAGATGAAATTCAGACAAACCTCTG
AATTTCCCTCTTTCTGCTAATTTCTTGCTTTTCTTTTATCATCTTTCCATCCATCCATAACATACAGTTCCA
GAGGAGTCTTTAAATCCTTCCCTTATTGCCTAACACCGAGGATCATTGCTGAAATCTTGTTGATTTTTCC
CTCAGATCAACAAAGGATTTTTCAGAATAGCCCTGATTTCTCTTTATCACCACGGTGCTGTCTCACGTCTT
CTCTCCCCCTCCTCCTACCTGCCGTCTCTTCCAGACTCGTCTCTCTCCCCCAATCTCCTTTGCGCACTGA
TGCCAAATTAGTCACAACAAAAGTGTTTACGTGATCGTGTCAACCACTGGTAAGCTCTTAATGGTCTTCC
CTTACACATTATCTCCCATTTTCATCTCAGGAGCCTTTTTATTAACCACTCTTCACAGTCTGACTCAGCCCT
CTTTGCCAGTTTCTCTCTTTACAAATAGCAAAGTCTATGAGCTAGATTACTCAATATTCCCTGAATAGGT
CTTCTCTTCTCCCACCTCTTGGCCCTTTCCAGTACCATTCAATCTTCCCTGGAAATTCCTGAAATTTCTTTT
CTCCTCACTCAGTCAATGTTTTGAGACCCACATCAAATGCTACATACTATTTGTTCCCTTTACTGATCATG
CCAGTTGGAAATGATTTCGAATCTGTAAAGCAGGGTGCTATGGAATGACATTTCTTATAGCCCTTTGGTCA
TTTGGGAGCAATGTCTAACATAATATCCTCCAGGTCCATCCATGTTGTTGCAAGCGACAGGATTTCCCTT
TTGTTAAAGGGTGAGTAGCATTCCATTCTACATATATTCCATATTTTATTTTTTTTTGCTCATCTGTTGA
TGGTCACCCAGGTTGATTCCATATCTTGGCTATTGTGAATAATGCTACAGTGAACCTGGGAGTGACAGATA
TCTCTTCAACATATTGATTTTCATCTCCTTTGGATATATACCCAGTAGTGGGATTATTGGATCAAATGGTA
ATTATATTTCTAATTTTGGGCAGGGTCTCTGTAGTAGCTCCATAATGGTTGTAGTAATTTACATATCCA
ACCAAGCAGCCAGGGTTCACTTTTCTCATGTCTCTGCCGACAAGCCTGATATTCTTATTTGCCTCTTA

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CGCCTTCAGCCTTTCCCTCGTGA CTTAACGGTGA CTCCCTTGAGACTACTTGAAATAATAAGTTTGGATG
GCAAGGAAATACCCTTCTGCTGTCACCCTTTGCCATAAGACTGAGTTACTTTGTAAACAAAGAAGATTTA
CTTGGTCTTCCATGCCCAAGACCCTTTTACTTTTCATCGCTTAATATTTTCATGGCCAAAACTGTTGGTT
CTTCCAATCTTGTAAGGCCATTTATCTTTGATCTTGCTCCATTCCTTCCATTTTTCCTTGAGAATCATT
CAGTTCTTGCCTGATCTCACGTCTTCTCGCAACACCTTACTAATGACTGCCAGAGTGTCCACTACACAC
TATCGGTCTCATTTGACCACCTTCCCCAGGCATGTAGCCTACCTGCCAAGTTCTTTCACAGCAGATATTTT
GCAGTGTGTAGAGGGGCTCCCTAGCTTGCTATGTTTTCTTACTACCTGGCATTAGGAAGTAAACATTTT
TCATGGCAGTATTCACCTTCTAGTACCAATTTCTTTTTTAATCTACATGGGCTAACTGCTGTATCAAACAG
CCATCAAATCCCAATGTTAATTGCAACTTACAGTACGTTGTGATGTTTCTGTCTGTATACTCATTTCAGAC
ACACAGAGTTTAAAGTAATTTGTTCAAGATCACAAAGTTAGTAAATGGTGGCATCAAGATTTGAACCCAGG
CAGCTGGACTCAAGAGTCTAAACAACCTTTCATTTTAAAATTTTCATCTTTCAGATATATCACTTACAAT
TTCCATCTTCATCACTTTCTTCCATACTTCAGAGCTGCATATGTAAACCTCTTGATCATATAAATATTTA
TGGAGTCTCAGCATTTTGAACAGATGCTGAGAGATTTTGTAGCATTGAAGATAAAGAAGCTCTTCAATA
CATCTAATCTTGCCACTATTGATTTTGAACAGCATCTTAATTTGTTACCTTTTAAAACCATATTGTACT
TTTCTTCAGGACAGCTAAATTAATGTCTTATGTTGATCCCCGGGTTTTCTCAGTTTCCATTTATCAGT
TTCTTTTATATAAAGAGATGCTAATGGGTAACCTTACATTTTGTAGGCATATTTTGAAGATATACAA
GTGAAGGTTTGATCTGTACACCTCGTTAGAGCTCTTTATTTTACATGTGGAGGAAGAGATGCCTTAGGG
CTTCTGAAAAACAGGCTTTTATTTTATAGAGGAGAACTTCCAGAACATGCCATGAGCAAATGCTCTGT
CAAGTCTGGTTCTTCCCCCATTACTTAAGTGCAAATGGACCACATTTGAAGAAGATAAGTAGCAGAACA
AGGCTCCCCACAAGGGGATTTGAGGTGCTCTGAAAACAGACTGACATAATCCATGGAGGAGTTCATCA
CTGCAGGCTGTACGTCTCACAGTGGGAGTCATAGGCTGGTCTGCTTGATAAACTACTCCTGATCTATGA
CTGGAGCTGTGTGCTTCCCTTAAAAATAAATCTTGTTTTTCCATGCCCCACGTGCTTCTCAGCCTCAGGA
GCACCTCATGGATTTAGACTAATCTTGCTTTTTACAGTCATGTTACTTCCAGATTCCCTAGGAATCACCCC
ATTTCTGATGCCGTTGATCCATCCATACCCACTGAAATTGAGCTAAATGCTCTAGTCTGATTTGCCCTT
GAAGTTAGTATAGAATATTTTGGCTAGACTTTGAAAATGAAGCCCTGACCACAATGCATAATGACCTCAG
TAGACACTGAAGAGTTCCTTTGCATCAGGCAAGTGACAAGTATCTATCTCATCTTCAAAGTCCACATAGA
TATGTGCCAGATTGTAGGTTGACAAATCACTTTTTTCACTAGCTCACGTGGCAAGCCTTTTCCCTTGTA
TAATGCTAGTGAGAGACCCATAGGTACCACATAATTGGCCAGTCATTGAGATTCAAGCAACATTTGGATA
ATTTAGCAAACTATCATCAGAATCATCAAAGTACATAATTTTATTTATTATGCAAATAGTGGATTAC
TAAAGTGCTTAGACCAATTAAGTTGCTCCCATTGAAAAACAGGGTGATTTTATTCTTAAGAATATATCAG
GATAAACTTCTTGAGCCTCTAAACAGTACTGCTTAGAAAAGTGACAGCTTCACTGCATTGCATATCCCC
CAGAAGCCCTCAAAGTTCAGATGTACACCACAAAAACATGAAGCACATGTGTTTGCATGGAAGGTAGGCT
CTGGGGTCTTCTATCATAATATGTCTATGATTAATAGTCAACATATGCCCCCTCCACATTCCCTAAAGG
AACATACACATGCATACACACACACACACACACACACACACACACAGTGAGAACTGAATTGAGAG
TTTGGGGTATACACCATCCCTGAGGGCACAGTCTACAGCTCCTAATGTGTGCTGTAGAGCAAGCATTATA
TTGTTGACAGGTAATAATTCCTGGTTAGGAATAACAGGATACCAGTGAGAAGAGGCTGAGAAAAATACAC
TCTTGCTGGAAGAGTCAAGAACGAGCTCTTCGTGGGAACTATGGGAGACGATTGAAAAAGGACAAGAAG
AAAGGAGAATTGTTAAGTCTCCACTTTCTCAGTTTCTGAACTGAACCTTTGCTCACAGCAGGTGAACACA
GGCTCCCTCCCACACTGAGACTTCTCCCTGCGGTGTGCAGTCTGTTAAGTAAACAGAGACGTTATAC
TGAGAAAGGAACATTTCTCTATTTTGGCTATGAGTTGTTATTTTAAAGATTCTCCTCCAAACATTTTC
CCCTATCCTTGTTTATTTTTCCTAGAAAGATGAAGTCTTAAAAAAAATTTCAACTCCATGACA
AGAAAAACCCACTTCTAGTATGTTCTCCCACTCAATGCCAATGGAGCCTTTGGTGTGAGCACTCTGCCA
GCCACACATTGGGCAGCATACCTCTTGAAATTCCTGCTGTGCTTCTATAGAGCTTCCATGCATCCAGATT
TTCAAAGTCAAAGCAAATGCGCATGGCAGTTTTTTCTGACTCCTTCAAGTTAAAGGCCAACCTCTCC
CTTGACATATCCATGTATTTATCAGTATATCTATAGGTAATACTTAAAGGTGATCCTTACTGTGTGCCAC
ACTCCATTCTAAGCACTTTACATAAAAAACCTCATTTCACTTTATTTGGGAATAGGATGACAAATTTCTTC
AATATTGAGATGGGTTGAATCTGGGGAGACTGATGTTAGATGCAAAAAGCTTTCTTTCTAGAACTTTTCC
TGTGCTTGCACCTGGCTTTCTCCCTGTCTTGTTCCTTCTAGATCTCTTTACTGACAGTGCCCATGGC
TTTCTTCTTGGTACTCTAGTGTGAGCATAAGAACTAGTATGTAATAGGCTCTCAGTAAATCTTGTTGAA
TGAATTAAAGTAGAGCAAGAATTAAAGACAGAGAAGAAGATCTTCTGTTGGAGTTCTTTCTTTTGGTTG
ATAAGCAATGTGATTTGACGTAACAATCTTGAGTCCTAATCCCCCTCATTTGGAAAATGGAAAATAAATG
CTAATCTTAGAGGTCACTTCTAAGAAGTATATGAATATATCAGAAGTAATCAACATTTTTTAAGTCAAAGA
AAAGAACGTCTGTGAAAAAGAAAACTAATGAGCTAGTTGAAAAAATATTAATTGGATCTTTTTCTCATAC
CTTACGCCAAAATAAATCCCCAAAATGGTTGCACAACATTGTGAATATACTGAAATCCATTGAATCACA
CTCTTTAAATGGGCAAATGTTATGTTATGTGATTATCTTTCAATAAAATTTGTTATAAAAATGAATAAAC
CCAGAAGATCAAAAATTTAAACATAAAAGCATGGAAGTATACTAGAAGGAAATATAAGATAATTTTATAT
GTTATGTTGTATATATTTATATGTAAAATTTTTTATTTATTTTCTTTGCTTTTAAAAGCAAGACATAA
TGTCTAGAGGAATAAATGAAACGTTTCGATAAATTTAATCTCTATTAATGTTTTGCAGAAGAAAATAC
CAGGAACAACATCAGAAGAAAAAACAAAAACCATAAGAAAAACAATTAAAAATACATATGACAAATGGC
TTATTACTATAATATTTAAAGAACTCTTAAAAATCTATGTGAAAATGACAAATAACAGAAAAATACGTGC
AAAGGACAAGAGCAGGCAGTTTAGAGAAAGCCTATACCAATATATTCTCTTATCAACAGTCTATTGTACA
AGCTATTTGAAAGCAATGTTTGAACATCAAAATTTAAAATACATAAGCCCTTTTATCTAGCAATTTCTAC
TTCCAAGAATTTATTCTATAGCTATCTGTACACATATCCAAAGACATAAACATAAGGATAGTCATTGAAT
GAAATGTTTTTAACAACAAAATACTTGAAAGCAAAGAAATGTCACCCAAGAAAGAAGTGATTGAAGAAAG
TTTAGCATTTCAGTTCAGTGAAGACATATTGAGCTGTCAAAAAAGTTGATGGAGAACTCCAAGGTCTATT
AACTAAAAACAAAACAAGGTGCTAAACAATATGTTTAGTGTTTCATATTTTAATTGTTTATATATTTTACA
AATATATATTTGTGCATGCAGAAAAATTTTTAACTTCTTTCTAACCCCGTCAAACACATCATGCCAAAT
TCAACTTGTGATAAAGAAAAAAATAAATGAATTCCTTTCTGTGTAGTATCTCATTTAAATTCTTCAACA
ACCAATAAAAAAGATACAGACACATGTTTTTAAGTACTACATGTTATGCACCTTTGGTTTGCTTATTTA
ATAGTTGCAACTACTAATGTTAAATTCCTGATGCCAAGGTTAAAAGCCTGAACTTCTAAAAATATCAAGA
TCTGACATTTTCTGTTTTTACAGATTAATCTGCCATCTCCTGACCTCCAACACACTGCTCTATGTTCTT

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TCATGCTGCTCCTCCTCCCATGTTTAGGACCCTCTTCCAAGGAGGCATTACATCTCTGCTTGATGAAAC
CCTACATTATCTTAAAGCGTCCACTCGAATGCCACCTACTTATATACCATCTCCTGCAATACCAATGGGC
TCAGCCCAACCATAGCCCATAGTTATTGTAGTTGTTCTTGTACTTCAAAGCACTACAAAACACAACCAT
CAGGACTTGTTACATTATTTGAAGGCTATGAGCATCTTCAGCCGAGGCCCTGTTTTATTTCCAGAACTA
CCACATTGTTTAGAATATAGTAGCAGATCAATATACGTGTATTAGATAAATCGTTTACCCAGATCTTGAT
CATTTTCAATTACCCATAGGTTGAAGAACTCCATATTTAACATGGCAGACTTGAGGACTGAACTACCTAC
CTCTTCTAAGAAGTTGAAATGAGAATGTTTTATTGATGGGAAATTATTTTTTGTGTTTGCCTTCTAGAAT
TCAAATGAATGTTTCATATTCCATGAAGACAATGGCTGATAGTTTTTTTGTAAAGATTAGAACCAAGTGGA
TTTTTATGAATGTGAACCCCTTCATGTCTTGTGGAAGATTTTCTGTTTTTAAATCTTTTATTTATTTAT
TTATTTTTGCTATGTTTTCATAGGAACCAGGGAAAATGTGTAGAGGGCATGGTGGAGATCTTCGACATGC
TGCTGGCTACATCATCTCGGTTCCGCATGATGAATCTGCAGGGAGAGGAGTTTGTGTGCCTCAAATCTAT
TATTTTGCTTAATTCTGGTGAGTTGATAACACAAGATAACTCAATGCTGGATGAAATGTTTATTTGTAGT
TTTCAACCAGATACGATCTACCCACTCCAAAGGCATAATGTCATAAATAGAAAGAACTACTGACACACA
TTTTAAATAACCTACCAACATTGCAGATTCTTATAAAGGTAGAACCATGCTAGCCAAATAGACACATG
AAAAATTGTAATTTGGCATTGAATCAAATGGCCTTTGAGCTAAAATTTTTGTATGCTTTTACAGATAGGA
TGTTTTTATTCAAATGGTACATGTATATAGACATATGTTAGTTGATAGTTATATTATGTCTGAAAATAAG
TAGACCAAGTAATTCTGTAAAGAAATTGTGACCAATTCCAGGCTCCAGATAGTAAAGAAAGAGGGTTATT
TGAGACAGACCATGTTTCTGGTCAAACTGACTAGCTAAAAATATAGTTGGCTTAGAGATAGAAAAACCT
GTTTCTAAAACAGAAGAATGTGGAATGCAATAAATTGTCCAGCTGAAAGAACATTTTCCATTTGCTCTAT
GAAGTCTGATTCTACTGCCCCCTCGTATTTATTTGTTTGTAGAAAGCTTAGCTAAGAGCAACATCTGTTTT
TTGTTTTTGTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTCAATGTAGTGAGGCTGGCTGTTGTATAAAGAGTT
ACTCTATGTCACCAAGATGGAACTATGGTTTACGCTGAATTAGTGCCCTGACTCCTCCTAGCCTCTTGG
TATTTGGATCTAAGCTCTAGCTCTACAGCCTCTGGGACCTAAAGCTCACATTGGGTATCAGCGGTACAGC
AGCTCCCCCTAAGCTCCACCTTTCCCCCTGGCTCTAACCCCACTTTGTGCCTCATCCCTCATTCTCACAT
AGAAATCATAGCTATTTTGAATCTCTGGGCTGACTTAGTTTCTTATGCCATTAGACATAGTCTCAAATT
CCTCAATAGCTGAATTGCAGCTTGTATTGATCACATACATAGAGAATCCGCACTTCCCTCTCTTCCACG
TGTTTTTGTCTCTTTCTGATGAGTGCTGATCCCTTCCGCTTCCCTAACAATTTTTTACTTTTCTTCCC
CACCCTGCTAGGAACCTGTGTTGCTTAATGGAATCAGCCCTTCCCTCTCTTTTCTTGTGTTTTTGTCTC
TTTCTGATGAATGCCAATCCCTTCCCACCTCCCATGACAATTTTCCACTTCTCTTCCCCACCACCTAG
TAACCTGTGTTGCCTAATGGTTATCACAGTAATCATTCTCACTTATCAACTAATAAATGGAAATCTGTAC
TATTACACTAGGCAAGGACTGAATTACAGAATGAAGTCCCATGATAAATGATGTGATCCACACTAAGGAA
GTGATTACCCTCCATTCCAGGTTTCTGTTTCCACTCAGTGCATTGTGCTTTTCATTTTCACTCGTTTGT
CTGTACATTGTAGGGTCCAGATCCCACAATGGCTCTTTATTGGATGAGAGTTCTGGGAGCAGTGCCACTC
AGCTACATGGTGCCAGGTCCGAACTGTGCCTTCTTGGTGGAGGGCTGGCACGTGCTGACAGCTTTCA
TGTGGGCAATCTGGGAACCTTCAGAGAAGGCAGGCCTATTAAAGTGTAAAGACTCCCCACCCCGAACTTTTA
CTGAGAAAAAGTACCCAGACAGGAAGTAAAATTAGCCAGAGTTGTATGATCCACACAGTGGATGCTCTG
ATCTCAGTAATAAAAAATATTTCTCCAGATCCATATAGACTTTTCTGCATTATTGTTTTGTTTCTGTT
CCTATGGCAGAGTGAGTTTTTAAACTATTATGCAAGAAATATCAGGATTTTTGCCACCAAAAAGTTGGA
TTCATAGACCCAGGGTTTTTACAACCCAGGGGAAAAAACTTTTCCGCTTCTCTTCCCCAGAAAGTATTTATTA
AAGACTGGCACCACCAACCTCAAGACTATATTTCTCACTGCAGGATTTGGCCCCGTCTGCTGCTCCTTCTCA
GACTAGTTAACTTTTCACTCCATCCTTGTTCCTTCTGCTTCTTCTTAGGATCTTCTGTGCACTTCTTT
CTTAGGATCTTCTTGGCACTTCTTTGCTCTTGAAGGGCAGAAACGCTATTGTAGAAATTCAGGCACTGT
ATGCTGACATAGTTTATAGTTGTCTTTTTCATGAGATAACACAGCGGCTGGCAGCTCCTCTTTTCTATCA
AGGACAGTACTGCTGGCTCAGGAGAGCAGTAAGCAAACAGAAGCTGTCTCTCAACCCTGTACAAAGCGAA
ACCACTCTTTTCCCTACAAAAGTGAGCTGTGCCCCAGAAAAGCGGATCTGCTGCTGAGCAGGGCTCCTCA
TGTCTCCTATTGTTTCTGAAAAACAGCATCAAAGAGGGCAAGACTGACACACAATGTTGTAGCATTAGGA
GCCTTTTTTCAGAATAAAAAAGCAATCAGTCATATGAAGCATGTGGTCATACCACAATCAACAATTTTTCT
CCACAACCTGGAGATATGGATTTTTTCTAAAAGTCCAATGATTATGAGGCTGATACGGGGCAGCTCTACC
TCTCATGAGACCAATGACCAAGTGACTCTGACTCCAGGAATCTCTGACAGAAGCCAAGCTGGAAACGGCT
CAGGAAACCTGAGCTAGAAGATGCCCTTCTGACACCTGGGAAACAAAACCTCAGTGTATGGAGGAACCCA
AGGTTTTTGTGTTGAGCCCCAGTCGCAAGGTCTGAGGAGGCTGGGTTTTATATTGGCCCCGATTTTGTGGC
CGAGGCACAAGGGGAATTGAAAGGTTGTTGTGAGGACCTGCTCGGAATGTCTTCTGGAAGTTTGGAGAG
GGTCTCTCAAATGCCAAAATTTCCATGGGAAGCCATTTTACAGCTGCTTGGGAGTGGGAGATATTGCTC
ATCATTTCTGCCCCATTTAGAATAATTTATTACTTTGCTTGCAAAACCCGGAATCATCCATAGGACACA
CGTTGTTTGTGTTTTTCCACTCCACACCAAAGGACAGAGGCATTCCTGGTTAATCCAAGATGCCAACTTCAA
GACATTCTGAGAACTAGCTGGACAGAGCTGAAGTGATAGGGCAAATCAGAACAGAAGTATGGGGCCAGGG
CAAAAGCCCGTGAAGCAGCAGCTGCGGAGGAAGGATGGGAGCTGGAGCTGCAAAGGGGGCCATGGTGGAG
ACTCTGGGCCCTGCCACAGTATCCCCCTCTGCCCCAATGGGAATTCAGTTTTCTGCTATATCATTCAATTAT
TTCTCATTTTTCTAGGCCTAGCTCACCTTATTCGGGAAGTTTTTGCAGTACCCCACTCCATAATGAATTT
CCTCTCTAGACTATTTCAATTCTTACAGTCACTACCACACAGTCTAGGATTTGGTTAGTTGGTTGATTTT
ATTCATTTATTCAATAATTCATGTTTATTGAGTTCCTACTATGGACTTTGTGCCAGGTATACAAAACCTG
AATGTTACTGTTGTGTTGGGTTTTTTTTCTTTGCATTTTTTAAAGTTAACCTGGATTTTTCTCTCACTCTTT
ATGCATGTATTTCTAATCTCCCTATAAACTATTTGTATTTTTTTGGATTCTCACAGTCTATTTAGCCT
GTGGACTGTCAACAGATGTTACATCATTCACTCATTTAATAGATGCTTATTTGCTAGACATGGCCAGGAG
GACCTGGAAAGTCTTCATTTTTTCCATCTGTTCTTACCATTCTGAAATGTATCATGCTCTTCAGTGTCTC
ACAGATCTAGATGATATCAAATTATTAAATGAAAAAGCAAGACCCATCTCCTTGGGTTATTGTGGATAA
GGGGGAAATTGTGTAGGAAGTGTCTATTGCAGTTTATGGACATTGTAGGCCCTTAGTCAACAACAGCTA
TCATCATCACTGATGAGAATCTCTGGCTTAAACGGAGTAGGTTTATGCCTTTTTTTCAGTGTAAATGAAGTG
TTTTAGTTTAAAGGCCCTTAGCAAGGCTTACAATAAAAAAAGTGGGGACTCCAGGGTAACACCAACAAT
AGAGACGACCATGGCTGTTATCCTGAGACTATTAATTATGCCACGTAATTAGATTTAGAGAAAACCTTAGA
GCAACATTTATCTTGTGGATAATAATTGATTGTGATTGGGACTTACCGTTGAGAGACCCTGATGAAAAC

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CTATGGTGAATTGCTGTGGAGTCACATGGGTTTCATGCATCATTCATCAGTGGGCCCTGGTTTTAGCCTCA
TAACCCCTGAGAATCCACCTCTATCAGAAAACCAACCTTTTCAGTGAAAGTTCCCTCAAGGCTCAGAAAAAT
TCATATGTCAAAGCTTTATATGTAAAAACCTATACTCTCTAATAAATGTTTTGGTTTGGCCTTCACATTCA
ATTTAATAATTATTTCTACCTCTTTTCTAAACCGCTCTTAACACAGTTCTATATATTTAATTCTGAAGA
GCCTCATGCACCTCCCTCCCTGGTAACCTTTATCTACTTCTCTCCCTGGAGAACCAGCCAGACCATGATTC
CAGCCCTCTGTCTCTCTTCAACCGTAGGTCTCTTTTCTCTCTCTGACTCCTCAAACCTTCTCCAGTTA
CCCGGATGCCTTCTGTGTGCTGTGGCTTCTGCATCACTGTTTACAGGGCCACTTGTCCCCCTGGAAATG
TCTTATGCTCTTGAAATGCTATAGCCTTGTTCACCTGTTTCATCCAAACTGATCCTCAGACAACATTTCT
CTTTCAATTGGTGGAATAATAAGAGGAATATGGGTCAAATTCATAGACATTTAAATACCCAAGGTGCA
AAGTTAAGAGAAAACAAGATAGGAGAAAGAATTATGGCAACATCTCTAAAATGTGTACTTTAGTGTTTAG
CAAAAAGGGACTATGGAATGTCAAACAGGAACATATATGTTAAACATAAACATGAAGCAGTGCCAGCTG
CTGTCTGCCATATAGTCATGCTTTGTTAATGTGGCACATCTTGCCATGATGGTGCCCTCATGAAACGAAG
GATGCTGAAGCAGATGCCATTCTGTTTGCTTTGATCAGAAGCCACTCTCTGGTCAAGGAAGTATTTGTTT
CATGCTTAATTATAACAAGTTCTCATCACAAGATTATTTTCTTCTCCAGATCTGGATTGTTTGCACCTC
ACTTTATATTATTAGACAATTACTCAGATTGTTTATGTTTTATGTTTAGAAATAAGACAGTGATTTCAGA
GAGTCCCTGTATTTAGATGAAAGAACATTTTTTAAACATATTGACTGTAAACACTGAAAATCATTAAATTC
TCAACAGTTGAAGGTTTCTGACAGGAACGGCCCTTGAAATGTAAATGGGCACATTGTCAGGTATGCCC
ATTGTTGTACATTGGAGAAGATTGGATTCTGTTCTCTCTGGAGTCCTTTGTAATGCCAAGCTTCCTCTC
CAGGGAGCTGGCTTATTGTCATTATTTTGTAGATAAATGGCACTTCATAGTATTAAGTGGTTCATTGTCTC
TTCTCTGGCTGACTGTATTCTGTAGGCAGCCACTCAACTTTGGAGCCTTTCTCTGCTACCAACTTTTGGT
GTTGCCTTAAGCAAGCCTCATGGCTCCTGTTAGTTTCTGACAACATGGTATAGCATGGACTTTGTCATC
AGAGAGGACTGAATTCAGGAGAAGCAACTCTGCCACTTCCTTGCGGAAGGGGGATGACTGATGTCCTTT
GATAAGCTGCTTCCCTGAGCCTAATAAAAAAATAGAAATAATGATACTTAAACTCATGGAATTGTTGTGA
CAATTGAAAGAATGACCAGTTAGTAAAGCATCTTGCAACATGACTAGCACACAGTAGATGCACATGAGTG
TTACTAAGCTTTAGTTATGCCCTCCAAATACAAAGCCTTAGTTTTGTCACTATGAAAGAAATTACTCTGT
TCTTCTTAGCAGGTAATAAATAAATCCCTGCCTGGAAATTCCTGCAGGAGAATTTACCCCTGCGCTTTCA
GGTTAAAAGATTGCATTCCCATGATGAAGATGTTCTGTGAATAGAATCATCTCAAGTCCCAAATGGTGTG
GATTTGCTCCTGCATCTTGTTGCAGAGATTCTCTTGAGCTTCTGAGAAGTGGGGAACCAACAAATGC
CTGTAGCCTGGGGAATGTAGGGAGTTTTAGCATGAATTTGTGGGAGGTGAGAAAAGGCAGCAGGTGTC
GAAAGACGGGAATCCTTGCACTGTTCTAGATGTTAGGAGCCATTTTCCATTACATTACACCTCAGG
AGGAGAAGCTGCCTATCACTTTGTGTCTCAAGAGAACCAACAAAGGAGAATGCCATCTCCAGATACTC
AATTTGATTACCATTTTATCCTACCTTCTCTAGGGTCCAGACATTATGTAAATTGGCATTAAAGTTTGAAT
AATGTATGGACCCAGTTTAAAAGGAAAAAATGCTTTGGGAGGCTGAGGCAGGTGCATTGCCTGAGGTCAG
GAGTTCCAGACCAGCCTGGCCAACACAGTGAAACCCCATCTCTACTAAAAATACAAAAAGTTAGCTGGGC
ACGGTGGCGGGCACCTGTAATCCCAGCTACTCAGGAGGCTAATGCAGGAGAATCACTTGAACCTGGGAGG
CAGAGGTTGCAGTGAGCCAAGATCGTGCCATTGCACTCCAGCCTGGGTGATGAGAGCAAACTCCATCTC
AAAAAATTTTTAAACAAAAGGAAAAAATGCTCCCTGATTCCCGCAGTGCTGACTTAAATGTTCTTAG
TATGCCAATGTTGCTTAAATATGAATGACTGTAGCTTCTACTTAAATTGGCAACCGCACCAATATAAAC
TGCAAATGTTTATAGCTCTTATGGAAGTATAAAGCAAAACAAATTCCTTAAATTAAATACAACTAAGAG
GGAACTGATAATAACAATGTTTTGTGTAATTAAGTTGCTGTTTGCAACATGCCTGGGGCAGACTCCTGG
CCTCTTTGCATCTGACATGAGAGGCTACCAAGGATGTGGCCACAACCTGGGCTCTCCCAGCACTTGCTTGC
GCTCAGAACTGTGCCAAAACCTTTGCTCGCCAGTGTTCTGCAACGTCCATCATTTGGATTGCGCAGGAA
CACATCATTTATGCATTTTGTGTTGCTTCTGTATTTAGTTGAGATACTTAAATATAACTGCTAGATTCTA
AGGCATTACATAAGCATCTGTGAAAAATGTGTTACTTAGGAAACAGTTTCAGGGTTCCATGGATTATCTAGA
TTGGTGAGTCTTAAGACTGACCACACAATTCATCTGGGGGTGTGGAGGAGGGGAGCTTTGAGAAAAATCT
CTGTATGAGCACCCACACCCAGAGATTCCTATGCAATTATCCAGAGTGGTGCCTTAATATCAACATTTG
TTTAAAACCATCCCCAAGACTAAAATTTGTGACCGGGATTTAGAACCATTGACTTAATTGATGCAGAAC
ACTCTGATATTAATGTCTTCATGTCTTTTGGAAATGTCAATTAAGACAAAAGCATAAAATTTTAAATTCCT
AAAGACAATTTAAAGACCTATGAGAATCCATCTTTAATTCTCAGGAGCGTGTGGAACCTAGTTTGAAAC
TACTGGCATCGACAATTGAATTTCCACTAAAATAAAATAGCTCTCTAGTATATTACAAAACCTACCCATTC
TGCAAACTGCAGGGGAGCTACTGATCATGCTTGGAACCTGTGCCAGGCACTGCCTGCGTAAAAATGAGTAA
GGTCCACTTCCTCCATGGACTGGGTGGGTAGGAGGCAAGATAATTAACCAATTATTTTAAATATTATGA
GTTCAGGGTTGTAATGAAAGTAAGTATTGAGTGCTGCAGAGACCCAGCAAAGGAGTCCTTAGCTGAGAAC
TGATCCTTTGCTGAGTGACGAGGACATTATTGAACCGCCAGGCTTGATGGCATGTTGCATGGTAACAGAC
CAGTACACCAAACAGCAGGAGCTGTAGCAGAGAAAGAGTTTAAATAATTGTGTGGCAGCCAAATAAGGAGA
CAGAAGGAAACCTTAAATCCACCTCTTGAAAAAGTCTGGGACTAGGCTTTTTTAAAGAGAATTCTGGCAAGA
AGGAGGCTGAGGAGCTGGGGGTAACCTGATTGGTTAGGACATAGGAGAGGAGACAATAAGGATATAGAAAC
TCCATTCTTGCACTGGGTGAGTTCTCGGAGGGGGTCTCACTCTGGCTGGCAGCAGTGAACCCATTGGA
ATGCAGGATCTGAAAAATATCTCAAAATGGCAAACCTTGAGGGGTTTTTTTTTAGCATCAAAGATGTTATCT
ATAGAAGTTAGGACATTGTGACAGGGGGTACGTGACTTTGAAGTGTTAAGTGGCTGTCAGAAAGTGAGCT
ATTGCGAGCGTCCCCAACCTTTTTTGGTACCAGGGACCAGCTTCATGAAAGAAAATTTTTCCACAGATGGG
GTGGTGTAGGGTGGGGTGGGGGATAGCTTCGGGATGAACTGATCCACCTCAGATCATCAGGCATTAGTT
AGATTCTCATGAGGGGCACACAGCCAGATCCCTCACATGGGCAGTTTACAGTAGGGTTACAGCCCTAT
GAGGTTCTAATGCCACTGCTGATCTGACAGGTGGCAGAGCTCAGGCAGTAATGCTTCCTTGCCCACT
CACCTCTTGCTGTGTGGCTCAGTTTCTGACAGATTACGGACTGGTACCAGTTTGCAACCCAGGCAGCTGG
GGACCTCTGGGCTGTAGGGTAGGCTGGTTAATGCTTAGCTGTGTTTCTATTCAAAGCTTATGCTTTTGT
TAAAACCTAGTAATTTGGTTTTGTTAATTTTATGAAGATGATTTCAAGGATGAGTAGGATTAGCTGGAGT
CAGAAGGACACAAGGGAATTTCTGGCAACAACATTAACTACCAGTGAATGTCTCATCAAGTCACTGGAC
CTCTAATTCTAAGCAGTACTGTCAACCTTATAGGTTATGATGTATAAGATAGTGTGTGATGTATAAGAT
AGTGCAAAAACCTAAGTTAATATCACCATTTCTGTAGTACTCTCTATTTCAAAGGAAAAAATCTTCAGCA
GTCTAATATCCTACCAAATTTTGAAGTCAAGACCTCCCTACACTAATCAAAGAACTAGAGGTGCAATCA

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GGCCATATATTTGGAAAGGCCATAGGTGCCCTCCCTCTGTCCTTGTTCCCAGCATACTAAACTATAGTCT
AAAAGACTTTAAACTTGAAGTGAAGAAAACCTTAAGGAAACAACAACAAAATTCATTTATTTCCCTGAG
CCCAAAAGTAGAATAATTGTTTTTAAATGAATTTTCTTTCCCTGTAAGACATACTATGAATTGTTCAAT
GGGTATTCAAAGCATATGTAATAGAATATGTATGCTTTCCCTGAAAAATTGAAATGGAACATCAAACCTGTT
CTGTAAAGTTTTGAGTCTAGACCAAACCTCACAGCACTTAGCCAGAATATGTACATCTGCATCTGCCACTC
ATGGCCCCATCGCTCCCTCCAACCTGCTTCTCTTGGGCTGAAGGATGGAAAAGCAAACCTCCCTGCGTTGAG
TTCCATCTTGCCCTGCATGGCCTCCCCCATGGGGTCATTGAGCTCCCCACCAGCTTCCACCTCTTCCAGC
ACTTTCCGCCAGAGGGGCCGCTGGCTGCTTTTGCAGACTGAAATTGATTGTGGTTGATTTCAGCTCCATTTT
CTCTGAGTTTTTACTTTAGATGTGCTTTTGTAGGTTGCATTTTCTTCTGGCATATAAGAAAGACAGCAAC
ATTCATGGAACAGAGTGTGTCTGTGGCTTTGTCAACCGTTGTTTGTAGCTTGATCACCATTTATTGA
GTGTTTACTACTTTCCAGGCATTGTGCTAAGTGGTAGAAATACAAAGTTGCCTTACTTGATTCTCTGT
AAAATAGAGAGAGTAGTAGTTTCTACAGTGTGGTTTATGTGAGGCATAGGGACTGCTCCCTGAAACCTAG
GGACAACCTCCCTAGCAGCGACCCAGTGTCTCATATCAATAGTGGTAACAATTAGGAAGGCAGCTCCTACCT
CAAAGACCTCATGATCTGATGGTAAAGACAGATATAACAAGAAAATTATTCTTTTTAAATATAAAATTGT
GATATAAAAATAGTTTTCACTAAATTGGATTTTTATGAAATTTACAGAAACAAAATAATAAATTAAGGAA
ATATAAAACCACCTGACATTAGCCAACCATGTTGATGTTCTGATTATGTTACTGCAAAGGAGTGTAGGGT
TAAGAACGAGGGACTTTGATTCCAAGATCAAATCCCTTTCTGCTATTTCTTAGCTGTCTGACTTTGGGCA
AGTTGCTTAAACCCCTTTGTGCTTCTGTGTGCTTGCCCATGAGATGGAGATTATAATAGCGTCTACCTCAT
AGGGCTATTTTTAATACAAGTTAGCTCTTAGAACAATACCTACTTAAACTAACAATTTGTATTAGGTACT
GTTTTATTCTCCATCCGTACTGTGTATGCATATATTCATATTTATATTTACATATTCTAATTAGGATTAT
ATACATGTACTTTCTTTAAATAAGATTTTAAATAACTATATAATCAGTCATGATGATACAACATGATT
TATTCAACAAATCTGATGCTGTTAAACACGTAAGTGATTTCTCTTTCAGGATTATAAATAACATTTGTTT
TGCATTTTTTTTCATACATCTTTTGCTCACTTTTCATTGTTACTTTGTATATGTTGCTAGAAATTGATTTG
CTGGTGAAAAGGGTATAAACATTTTTAAGGCTCTTGCTACATATTGCCTGCTCTTCATACATATTGCCTA
CTGCCCCAGGAACTATCAATTACACTTTTACCAAGAGTGTATGAAAGCATTACATGAATGTAACCTTA
TCATGCAATGCGGGCCATGAGACAGAGGAGAGTTATGGAGGGTAGACGGCTTCCCCGCTGCTCAGCCACT
GCCCTCTCCTCTAAAAGAGCCACAGTCAGGAATTTCTACATAGATCCTATTATAAACATCTCCTTTTGAA
ACAAATTATCTTCTCTCAGAGCATTCTTTCATTTTAGTATCTATATAGGTCCTTGTTATGTTTCACTTTTA
AGTTTTGTGACCTGCACTGACACAATGCTGATGAAGTCTTATTCAGGCAGTCTGAGTTCTCAAAGCAT
TTGCATTTTATGTCTTATCCTCTGTTTTGGGCTCTTTGCCACTGATTTTTTTTTTAAGTGATTTTTAAGA
AAGAGGAGGGTTGATTTGTTGTGAGTGTATCTCTCTTTAAACCTTTTCTAGGGAAGGACAACCTCTTCC
AAAGACTTTGTTTGCTTTGTGTGATTGGCATGTCTTCCCTGGTCAGTAATGAGCTTGAAGGAAGCTACT
GGACACGGGACTGAACATGGGGTTTTGCTATCACTCTAGCTGTGCCCTTCTCTAGTGATCAAGGAGATGT
TGGTTTCAGAAAGTGCCCTGTCTAATCCCCTAAGGCCCGAAGGACCAAGTGCTGTCTACTCTCCAGATTC
TCTGCAACAGAAAGCAGATGCTTAGGCTTCATGGTCCAGGTTGGAACAGGTAGTTAGCTCTGAGGACAGT
TATGCATGAATGTGAGGAGGGGACTGGCAGGGGAACATTTATTTATTTCTTTAAATTTGGAATCAACAGTT
ATGGATGAAACCCAGAATGCAAAATTCATTTTCTGACACGCAACACATCTGTCTTTCTCCTTGAA
TAGCAAGTATTAATCATTGAGTTAGACAATGTAACCTTCACATTCAGTGAAAGCCAAACACTCAGCACCT
TCTAGAAAAATCTTAGTGCCATGCTTTCTTAGCATATTGCAAGTCTCTGAGGATGATGTGTTGTTTCAGC
TTTGAAGCTGATCTTTTGTACTTGCTTATGTAGCTCAGGCTAGTGATAACATGCCAGAGGCATTTCCAAC
TAAGAAAATTATTCACAGAAGCTTTAATTACAAATTTGTTAGCCCCACTTCCCTGCTAAAATGGCCAGCCT
TGAAGAGTTTCGGAAATGTGAGCAGCCTTAAGGATGATAGAAATATTATGAAATAGTAATAAGTAATACC
CATACAGCAAACCTCTTTTCTTTGGAGTATCCGTTTCATCAGCCAGATTTCCCTCTCAACAGTCCAGGTG
TTGACGAAGATCATGAAATAATAGGAATGAAAGGGACTTCGATTTTGTATTTTTAATAGCATTTTCCCTCC
ACCAAAATTACGAAAGTAATGCATGACCAAGGCAGAGAACTTGAAAAATACAGAAAAGCCACCAAGCAAAA
TAATCTCCCAAGAAATCATAATTTCAACACACAAAAGTAACCATTTGTCAACATTTTGGTGAAAAATCCTTA
ATTAAAGAGACTCTTAAAGATGCCAGTTGCTGCCACTTCTTCCCTTCTCCACACCATCCTGCACCCTG
TTTTGAAATGCAGAATTGTTTCTAAATCATTCCAGGAAATATTAGTTTTCTCAAATATCTCTGGAGGC
GAGTCTGTTGGCAGTCATTTCTAGTTTCTCACAAACCTTGAAGTTAGGAAATTATTTGTGTAGCTTTTGA
GCACTGGGCCAGAGTGAGGGATGTTTGGGTTCTAGTTCCAGCTCTACCACTTATTTACCAACTGGCCGA
CCTCAGGCAAGTCCAGGCTAGCGGCCCGCCTCAAGCCCCTCAGATGCAGCATCTGCAACCCCACTTCC
TTCACTTCCCTTTCGCCTCAGTTTCCCAACAATTTCCCTAGTAATTGTACTGAATCATTGTTTTTCATTTTT
TACATTAATAATTTATTTATTTTATTTTATTTTAAAGACTTTATTTTTTAGAACAGATTTAGATTTGCAG
CAAACTGAGTGGCAAGTACAGAAAGTTCCCATATATTCCCTGCCCCCGCACATACACAGTCTCCCTCAC
TATCAGCATCCCCAACCAGAGAGGTACATTGGTTACAGCTGATGAATCTACATCGACACGTCAATTATCAC
CCAAAGTGCATAGTTTGCATTGGCGTTGGGCATTTTAGGGCTTTTGACACATGTATGCACTATTGTAATA
TACAGAATAATTTCACTGCCCTAAAATCCTCTGTGCTCCTCCTATTTCCTCCCTCCACCCCAATTCC
TGGCAACTACTGATCTTTTACTGTCTCCACAGTTTTGCCTTCTCCAGAAATGTCATATACTTGGAAATCAT
AAGGTTTGTAGCCTTTTCAGATTGGCTTCTTTCATCAGTATGATGCAATTAAGGTTCTTCCATGTCTTT
TTATGGCTTGATAGCTCAATTTCTTTTATCATTTGAATACTACTACTCCATTGTCTGGATTATACACACTT
TATTTATACATTCACCTACTGAAGGATGTGTTGGTTGCATCCAAGTTTTGGCAATTATGAATGAAGTTGC
TGTAACACCCATGTGCAGGTAATTGTGTTGATATGCATTTTTAATGCTTTTGGATAAACACTCAGGAGC
ACAATTGCTGGATTGTATAGTATGTTTAGTTTTGAAGGAAACTGCCAAACCATCTTCCCAAGTGGCTGTA
CCATTTTCCATTTCCACCAACAATGAGTGAGAGTTCCTGTTGCTCCACATCCTCATCAGCATTTGGTGTT
GTCAATGTTCTGGATTTTGGCCATTCTAACAGGTGTATTGTGGTATCTCATTTTGTTTTAATTCGCATTT
TTTGGATAATATCACATGGAGCATCTTTTAAATAAGCTTATTTGCCATCTGTGTGCTTCTGTGGTGAGGT
GTCTGTTAAACTCTTTGGTCCATTTTTTTAATCAGGTTGTTTGCCTTCTTATCGTTGAGTTTTAAAGCT
CTTTGTATATTTTGGATAACAGTCATTTAGCAGGTATGTCTTTTGCAAATATTTCTCCAGTCTGTGGC
TTGTCTTCTCATTTCTCTGGAGATCAGTGGTTTTTACACTTTCTTCTGCTGAAGCCAAGTATTGTGGAAGA
AGCCATGGGGTCACCAGAGGATAGGTGCACAGGGTAGTGAGGGAAAGTTGGAGTGAATGGGCTTGGTGCC
CCCACCCCGCAACATTTCTCTTGCTTTAATCAGAGAAGTTTGAAGTTTCTCCAGATTGCATATGAGGACTT

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TACATGAGGTTACCTTTTTATTTGTTTTAAAAGGGGTTTTACTCTCAAATGTTTTAAAGACCACTGA
ACTAGATGATCATCTTAAGGCCCTTTAAGATTTATGATTCTGGAATTCTGTGGCTCTATTTTTCCAATG
TAATATAACCTTCCTCTCGTTAAGGAAAAATGAGATAAACCTGTTATAAACACTCATGTGACATTTTTTC
AATACAGTTTTTCATCCACGTAGTGTCTCACTTAGAATGATAGAAACAATACACCTAAAGAATATGCACCAT
TCACTTGCCCACTCATCTCTCAAAGAGAGGAACCTTCAACACTAGTTATCTTTTTAAAAATAATCAGAGA
GAATTCTCAGCCACTTCAATTCTAGCCCAGGAAAAAGAGGGAAAAATACATTTGAAGGTTTCTGGCTCATG
TGATACATTTGCAAACCAGAACCAAGATGATATGACTCTCATTTATTAGTGACTATTGCAAAGCTTTGCA
GGCTATTAAGCAGGCTGTTCAATTTAGGGTGATATGGACATGTGCATATTGGCCAATTATATATGCTCAG
ATCGTATGTCATTTTTTTTTCTGCATTTTAGTCTAAGTGTGAGATAGGTGTTTCATGATGTTTTATAACA
CTTCTGTTTACATTAAACATTGTTTATTGTTGGAAGGAATGAAGGGGTGTCATTTTCATGATTTTATT
TGATATTATGTATTCCACAGAGGATTTGAAATGCCTTACCAAATTTTATGTAATGTAAAGGGGTAAACC
AATATTTGACACATCATTATAAATTGAGGATAATCTGAAGAAAATAATAAATCCAGGAGACAGATTATCA
CACTGATATGGTTTGGCTCTGTGTCCCCACCCAAATTTTCATCTTGAATTTTACTCACATAATTTCCATGT
GTTGTGGGAGGGACCCAGTGGGAGATCATTGAAATCATAGGAGTGGTTTCTCCATGCTGTTCTCATTGT
AGTGAATAAGTCTCATGAGATCTGATGGTTTTATCAGGGGTTTCCACTTTTATATCTTCTCATTTTTTTC
TCTTGCCACCACCATGTAAGAAGTGCCTTTTCGCTCCCACCATGATTCTGAATTCTGAACCTTCCCAGC
CATGTGGAACGTAAATCCAATTAAACCTCTTTTTCTTCCAGTCTTGGGTATGTCTTTATCAGCAGCAC
GAAAATGGACTAATACAGTAAATTGGTACAAGGAGTGGGGTGTGCTGAAAAGATAGCCGAAAATGTGGA
AGCAATCTTGAACTGGATATCAGGGAGAGGTTGGAGCAGTTTGGAGGGCTCAAAAAAGACAGGAAAATG
TGGGAAAGTTTGAACCTTCCAGAGACTTGTGTAATGGCCTTGACAAGAATACTGATAGTGATATGAACA
ATAAAGTCCAGGCTGAGGTGGTCTCAGATGGGGATGAAGAACTGTTGGGAAGTGGAGCAAAGGTGACTC
TTGTTATATCTTAGCAAAGAGACTGGTGGCATTTTACCCCTGCTGTAGAGATTTGTGGAATTTGAACCTG
AGAGAAATGATTTGGGGTACCTGGTAAAAGAAATTTCTAAGCAGCAAACATTTCAAAGGTGACTTGGGT
GTTGTTAAAAGCATTCTGTTTTAAAAGAGAAACAGCATAAAAGTTTCAGAAAATTTGCAGCCTGATGATGC
AGTAGGAAAGAAAAACCCATTTTTTTGAGGAGAAATTCAGCTGGCTGCAGAAAATTTGCATAAGTAACAA
GGAGCCAAATGTTAATCCCCAAGACAATGGGGAATGTCTCCAGAGCATGTGATAGGTCTTCATGGCAG
CCCCCTCCATCACAGACCCGGAAGCCTAGGAGGAAAAAAACAGTTTTGTGGGCCAGTCCCAGGGTCCCCA
TGCTGTGTGCAGCCTAGGAACCTGGTGCCCTGCATCTCAGCTGCTCCAGCTATTGCTAAAAGGGGCTGAG
GTACCACGGTTTTCAGAGGTTGCAAGCCCCAAACCTTGGCAGCTTTCATGTGGTGTGAGCCTGTGTGTAC
ACAGAAGTTAAGAATTGAGGTTTGGGAACCTCCACTTATATTTTCAGAAGATACGTGGAATGCCTGGATA
CCCAGGCAAACATTTGCTGCAGAGGTGGGGCCCTCATGGAGGGCCTCTGCTAGGGCAATGAGGAAGGGAA
ATGTGGGGTTGGAACCCCCACACAGAGTCCCCACTGGGGCACTGCCCTAGTGGAGCTGTAAGAGGAGGACC
ACTGTCCTCCAGACCCGAGAATAGTAGATCCACTGACAGCTTGACCATGTGCCTGGAAGGCCACAGAC
ACTCAACGCCAGCCTGTGAAAGCAGTCAGGGTTGGAGGTGGTGGTGGCTATACCCTATAAAGCCACAGGG
GCAGAGCTGCCCAAGACTATGGGAACCTACCTCTTGCATCAGCATGACCTGGATGTGAGACATTCAGTCA
AAGGAGATATTTTGAAGCTTTAGAATTTGACTGCCCTGGTGGATTTAGACTTGTGTGGGCCCTGTAACC
CCTTTGTTTTGGCCAATTTCTCCCATTTGGAGCTGCTGTATTTACCCAATGCCTAAACCCGCATTGTATC
TAAGAAGTAACCTGATTTGATTTTACAGGCTCATAGGCAAAAGGGACTTGCCTTGTCTCAGATGA
GACTTTGGACTGTGGACTTTTGGTTAATCTGAAATGAGTTAAGACTTTGGGCGACTGTTGGGAAGGCAT
GATTGCTTTTGAATGTGAGGACATGAGATTTGGAGAGGCCAGGGGTGGAATGTTATGGTTTGGCTCTGT
GTCCCCACCCAAATCTCATCTTGAATTATACTCCATAATTCCAAAGTGTGTGAGAGGGACCTGGTGGG
AAACAAATTTGAATCATGAGGCCAGTTTCCCTTATACTGTTCTTGTGGTAGTGAGTAAGTCTCACGAGATC
TCATGGTTTTATCAGGGTTTCCGCTTTGCATCTTCTCATTTTCTTCTGCTGCTGCCATGTAAGAAGTG
CCTTTCACAAGCATAAGGAAGAAGTATACTTGTGGAGCAGCAGGCTGTCCTTCTTCTGACGATATGGAC
TGCAAGTGCCATGTTTACTTTGACCAAGATGGCCTTTCTTTTACAGAAAGCCAGGGTTACCCCTTGA
ATTTTCATAAGACCTCTCTTTGCAGTGGGTAGATACTCTTTTATATTTTATACTCTGTGAGGAAAACAT
TTTTTTTTCCATTTAAAAATCAATCTTTTGGTTGCTTCCAAGATGGCTGAATAGGAACAGCTCTGGTCTG
TAGCTCCCAGCGAGATCGAAGCAGAAGGCAGGTGATTTCTGCATTTCCAAGTGGAGCACCTGGTTTCATCT
CACTGGGACTGGTTGGACAGTGGGTGCAGCCCACGGAGGGTGAGCCGAACCTGGGGCAGGGTGTCACTCA
CCCACAAAGTGCAAGGGGTCAAGGGATTTCCCTTTCTAGCCAAGGGAAGCCGTGACAGACTGTAGCTGG
AGAAACAGTACACTCCTGACAAAATACTGCACTTTTCCCCACAGTCTTGACAACCTGGAAGACCAGGAGAT
ACCCCTCCCTTGCTGGCTCAGTGGGTGCACAGCCCATGGAGACTTGCTCACTGCTAGCGCAGCAGTCTGA
GATCAACCTGCAATGCTGCTGCTTATGCGGGGAGGGGCGTCTGCCATTGATGAAGCTTGAGTAGCTCAC
AGCGTAAACAAAGCAGCAGGGAAGCTTGAACCTGGGCAGAGCCACCTCAGCTCAGCAAGGCCTACTGCCT
CTCTAGATTTCCACCTCTGGGGGCAGCACATAGCAGAAACAAAGGCAGCAGACAGCTTCCGCAGACTTAAA
CATCCCTGTCTGACACCTCTGAAGAGGGCAGTGGTTCTCTCAGCACAGTGTTCAGCTCCAAGAACCAAG
AGACCGCCACCTCAAGCAGGTCCCTGACCCCATGTAGCCTGACTGGGAGACACCTCCCAGTAGGGGGCCG
ACAGACACTTCAAACAGGCAGGTGCCCTCTGGGACGAAGCTTCCAGAGGAAGGATCAGGCAGCAATATTT
GTTGTTCTGCAGCCTCCGCTGGTGATACCCAGGCAAACAGGGTCTGGGGTGGACCTCCAGCAAACCTCCAA
CAGGCCTGCAGCTGAGGGGCTGACGGTTAGAAGGAAAATAACAAACAGAAAGGAATAGCATCAACATC
AACAAAAAGGACATCCACACCAAAACCCCATCTGTAGGTTCATCAACATCAAAGACCAAAGGTAGATAAAA
CCACAAAGATGGGGAGAAACCAGAGCAGAAAAGTGGAAAATTTCCAAAACAGAGCGCCTCTTCTGCTCC
AAAGGATTGCAGCTCCTCACCAGCAAGGGAACAAACAGGATGGAGAATGAGTTTGATGAGTTGACAGAA
GTAGGCTTCAGAAGGTGCGTAATAACAAACTTCTCCAAGCTAAAGGAACATGTTCTAACCCATCGCAAGG
AGGCTAAAAACCTTGAAAAAGGTTAGATGAATGGCTAACTAGAATAAACAGTGTAGAGAAGAACTTAAA
TGACCTGATGGAGCTGAAAACCAAGCATGAGAATTCGTGATGTATGCACAAGCTTCGATAGCTGATTT
GATCAAGTGGAAAGAAAGGATATCAGTGATTGAAGATCAAATTAATGAAATAAAGTGAGAAGACAAGATGA
GAGAAAAGAGAGTGAAAAGAAACGAACAAAGCCTCCAAGAAATATGGGACTATGTGAAACAAACAAATA
TATGTTTCATTGGTGTACTGGGAAGTGATGGGGAGAATGGAACCAAGTTAGAAAACACTCTTCAGGATAT
TATCCAGGACAACCTTCCCCAACCTAGCAAGGCAGGCCAACATTCAAATTCAGGAAATACAGAGAACACTA
CAAAGATACTCCTCAAGAAGAGCAACCCCAAGACACATAATTTTCAGATTTAAAAAGTATGAAATGAAGG

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AAAAAATGTTAAGGGCAGCCAGAGAGAAAAGTCGGGTTACCCACAAAGGGAAGCCCATCAGACTAATGGG
ATCTCTCAGCAGAAACCCCTACAAGCCAGAAGAGAGTGGGGGCCAATATTCAACATTCTTAAAAATTCTTA
AAAAAGAAGAATTTTCAACCCAGAATCTCATATCCAGCCAACTAAGCTTCATAAGTGAAGGAGAAATA
AAATCCTTTTACAGACAAGCAAATGCTGAGAGATTTTGTACCACCAGGCCTGCCTTAGAAGAGCTCCTGA
AGGAAGCACTAAACATGGAAAGGAACAAACAGTACCAGCCACTGCAAAAACATTCCAAATTGTAAAGACC
ATCGACGCTATGAAGAACTGCATCAATTAACGGGCAAAAATAACCAGCTAACATCAGAATGACAGGATCA
AATTCAAACATAACAATATTAACCTTAAATGTAAATGGGCTAAATGCTCCAATTAAAAGACACAGACTGG
CAAATTGGATAAAGAGTCAAGACTGTGCTGTATTTCAGGAGACCCATCTCACGTGCAAAAATGCACATAGG
CTCAAAAATAAAGGGTCGAAGGAAAATCTACTGAGCAAATGGAAAGAAAAAAAAGCAGGGGTTGCAATC
CCAGTCTCTGATAAAACAGAAATTTAAACCAACAAAGATCAAAAGAGACAAAGACAGCCACAACAAGAAGA
GCTAACTACCCTAAATATATATGCACCCAGTACAGGAGCACCAGATTTCATAAAGCAAGTCCTTAGAGAC
CTACGAAGAGACATAGACTCCACACAATAATAATGGGAGACTGGGAGACACCCACAGTCAATATTTAAA
CAGATCAACAAGACAGAAGGTTAACAAGGATATCCAGGACTTGAAGTCAAGTCTAGACCAAGTGGACCCA
ATAGACATCTACAGAATCTCCACCCCTAATCAACAGAATATACATTCTTCTCAGCACCACATTGCACTT
ATTTTAAAATTGACCACATAATTGGAAGTAAACACTCCTCAGCAAATGTAAAAGAACAGAAGTCACAAC
AAACTGTCTCTCAGACCACAGTGAATCAAATTAGAATCAGGATTAAGAACTGACTCAAATCCACACA
GCTACGTGGAACTGAACAACCTGCTCCTGAATGACTACTGGGTAAATAACAAAATGAAGGCAGAAATAA
AGATGTTCTTTGAAACCAATGAGAACAAGGACACAATGTACCAGAATTTCTGGGACACATTTAAAGCAGT
GTGTAGAGGGAAATTTATAGCACTAAATGCCACGAGAGAAAAGCAGGAAAGATCTAAAATCGACACCCTA
ACATCACAATTGAAAGAAGTAGAGAAGCAAGAGCAAAACAAATTCAAAAGCAAGCAGAAGGCAAGAAATAA
CTGAGATCAGAGCAGAACTGAAGGAGACAGAGACACAAAAAGCCGTGCAAAAATCAGTGAATCCAGGAG
CTGGTTTTTTTGAAGAGTCAACAAAATTGATAGACCACTAGCAAGACTAATAAAGAAGAAAAGAGAGAAG
AATCAAATAGATGCAATAAAAAATGATAAAGGGATATCACCACCGATCCACAGAAATACAACTACCAT
CAGAGAATACTATAAACTCCTCTACGCAAATAAACTGGAAAATCTAGAAGAAATGGATAAATTCCTGGAC
ACATACACCCTCCCAAGACTCAACCAGGAAGAAGTTGAATCTCTGAAGACACCAATAACAGGTACTGAAC
CAAGGTTTGGACCAACCAAAAAATGTCCAGGACCAGATGGATTACAGTTGAATTCTACCAGAGGTACAAA
GAGGAGCTGGTACCATTCTCTCAGAACTATTCCAATCAATAGAAAAAGAGGGACTCCTCCCTAACTCAT
TTTATGAGGCCAGCATCATCTGGTACCAAAACCTGGCAGAGACACAACAAAAAAGAGAATTTTAGGCT
AATATCCCTGATGAACATCGATGTGAAAATCCTCAATAAAATACTGGCAAACCAATCCAGCAGCACATC
AAAAAGCCTATCCACCAAAACCAAGTCAGCTTCATTCTGGGATGCAAGACTGGTTCAACATACGCAAAT
AAATAAATGTAATCCATCACATAAACAGAACCAATGACAAAAACCATGATTATCTCAATAGATGCAGA
AAAGGCCTTTGACAAAATTCACAGCCTTTCTTGCTAAAAACTCTAAATAAATTAGGTATTGATGGAACG
TACCTCAAATAATAAGAGCTATTTATGACAAACCCACAGCCAATATCATACTGAATGGGCAAAACCTGG
AAGCATTCCTTTTGAAGAACAGCACAAGATAAGAATGCCCTCTCTCACCCTCCTATTCAACATAGTGT
GGAAGTTCTGGCTAGGGCAATCAGGCAAGAGAAAGAAATAAAGGGTATTTCAGTTAGGAAAAGAGGAAGTC
AAATTGTCTCTGTTTGCAGATGACACGATTGTATATTTAGAAAACCCCATTTGTCTCAGCCCCAAATCTCC
TTAAGCTGATAAGCAACTTCAGCAAAGTCTCAGGATACAAAATCAATGTGCAAAAATCACAGGCATTCTC
GTACACCAATAATAGACAAACAGAGAGCCAAATCATGAGTGAAGTCCCATTCAGAATTACTACAAAGAGA
ATAAAATACCTAGGAATCCAATTCACAGGGATGTGAAGGACCTCTTCAAGGAGAACTACAAACCACTGC
TCAACGAAATAAAAGAGGACACAAACAAATGGAAGAACATTCCATGCTCGTGGATAGGAATAATCAATAT
CACGAAATGGTCATACTGCCCAAGGTAATTTATAGATTGAGTGTATCCCCATCAAGCTACCATTGACT
TTCTTCACAGACTTGGAaaaaaaactactTTAAAGCTCACATGGAACCAaaaaaagagcctGCATAGCCAAG
ACAATCCTAAGCAAAAAGAACAAAGCTGGAGGCATCACGCTACCTGACTTCAAACCATACTACAAGGCTA
CAGTAATAACAGCATGGTACTGGTACCAAAATAGATATATAGACTAATGGAACAGAACAGAGGCCTC
AGAAATGACACCACACATCTGCAACCATCTGATCTTTGACAAACCTGACAAAAACAAGAAATGGGGAAAG
GATTCCTATTTAATAAATGGTGCTAGGAAAATGGCTAGCCATATGTAGAAAGCTGAAACTGGATCCCT
TCCTTACACTGTATACAAAAATTCGCTCAAGAAGGATTAAAGACTTAAATGTAAGACCTAACACCTAGAA
GAAAACCTACACAATACCATTTCAGGACATAGGCATGGGCAAGACTTTATGACTAAAACACCAAAAGCAA
TGGCATCAAAAGCCAAAATAGACAAATTTGGATCTAATTAACTAAAGAGCTTCTGCACAGCAAAAGGAAAC
TATCATCAGAGTGAACAGGCAACCTACAGAGTGGGAGAAAATTTTGAATCCACCCATCTGACAAAGGG
CTAATATCTTTGTAGAATCTGCAAGAATTAACAAATTTACAAGAAAAAACAAACCCATCAAAAAAG
TTGGCAAAGGATATGAACACCTTTACACTGTTGGTGGGAGTGTAATTAGTTCAACCATTGTGGAAGACA
GTGTGGTGATTCTCAAGGATCTAGAACTAGAAATACCATTTGACCCAGTGATCTCATTAGTGGGTATAT
ACCCAAAGGATTATAAATCATGCTACTATAAAGACACATGCACACATATGTTTATTGCAGCACTATTAC
AATACCAAAGACTTGGAACCAACCCAAATGTCCATCAACGATAGACTGGATAAAGAAAATGTGGCACATA
TACACCATGGAATACTATGCAGCCATAAAAAAGGATGAGTTTCTGTCTTTGCAGGGACGTGGATGAAGC
TGGAACCATCATTTCAAGCAAACTATCATGAGGACATAAAACCAAACTGCATATTCTCACTCATAGG
TGGGAGTTGAACAATGAGAACACATGGACACAGCACAAGGAACATCACACACCGGGGCTGTGAGGGGTT
GGGGGGCTGGGGGAGGGATAGCATTAGGAGAAATACCTAATGTAAATGATGAGTTGATGGGTGCAGCAAA
CCAACATGGCACATGTATACCTATGTAAACAACTGCACGTTGTGCACCTGTACCCTAGAAGTTAAAGTA
TAATAAAAAAAGAAAGAAAGAAAGAAAGAAAGAAAGTGGCTTTTACCTCCCACCATGATTCTAAGG
CCTCTCAGCCATGTGGAAGTGAAGTCCAGTTAAACCTCTTTTCTTCCAGTCTCGAGTATGTCTTTAT
CAGCAGCGTGAAAATGAACTCATACACACACAGAAGTATATCTTTACAGTTCCAGGATGGACTGCAA
GTTTGGCTCTAAATTTCTTTGCCTGGCCAAAACAAAAGAACACATTTTATTATAAGGTTACAGGCTT
TTAATTGAAAAAAGAAAGAAAGAAAGAAAGAAAGAAAGTGGCTTTTACCTCCCACCATGATTCTAAGG
TATTTCTCACAAGTAGGACTTTGGCAAGGATTGTGCAACTGACAATTCAAAGTCATTTATTCCGTGGTGA
GAAACCGGAGTACAGATCTTTACCAGTTAGGGGATGATCCATGTGTTTTGATAATCACCTTGGTGGTGA
CAGACTAAAGGTCTCCTATGAAAACCATTAACCTTCACACTATAGCTGATAGGATGCACTGAAGCCCTTAC
CGCTGACTGCATGGATGAGAGCTAGGCCAGAGCATTGGCAGGCAGAGTTTATAACATGGGGCAGGAAGCA
TTGAAATTCTATTCCACCTCTTGGTGTATCAGGTCAGGAGTCAAATCTCCTATCTTCTCTTCTGGATCG
CTTTCTCTCTGAAGTGTCTGGCATAGATGTCTAGGTATAGCTTGGCATGGTGGTGTGTGCCTATAGACCC

FIGURE 1, sheet 90 of 94

AGCTACTTGAGAGGCTGAGGTGGGAGGATTGCTTGAGCGCAGGAGTTTGAGGCTGCAGTGAGCCATGACC
ACACCCTGTACTCCACCCTGGGTGACAGAGCAAGACCCTGTCTCTCTTTCTAAAAAACAAAAACAAAC
AAAACAAAAACAAAAAGAAAAAAGATGTCCAAGTGTGTTCTGGTTACTGCTGCTGACTGCTAAATTTAAC
AGCTAGAAAAAAAAGTTTGGACTCTATGGATCATAAATTTGGATAAGACACAGAGGGAATGGCTTGTCT
CATGTTTACAATGTCTAAAGTCTTAAATGGGGAGAGTCGTCAACCAGGGGTAATTTGAGAGTTATGGGCT
GGAACCACCTTGAGGCATCTTTATTCATAGGCTAGCAATTGATGTTGGCTGTTGGCTGGGACGTCAGCTG
GAGCTGTCAACTGGGAGACCTGTCTGATATCCCAGCATAGGACACTAGACCTCTCACAAAGTGGCGAGGG
CTCCAGAAGCAAGTGTCCAGCTGACAAAAAAGTTTCATAGCCTTCTACGACATGCACTTAGAAG
TGGTAATGTGTCACCTCCAGCCCTTCTGTTGATTACAAGTGAGTCATGAGTCCACTCAGTTTCAAGGGA
GAGGGCCCAGATCCCATATCTCCATGGGAAGAGTGCCAAGAACACCTTGTAGAAAAGCTTGTGGATAGGA
GATATTGGTGTGGTCATCCTTGGAAAAACAACTCTTCCACAGTGTGCAAGAGAGGCTTCTGCTCTGCAT
TGTGGCTTAATTTATTGTTGAAATACCAGGCAAGAAAAGGTAGGATCCAGGGAAACAAATGTATCCAGGAT
GTTTTGGTCTGCCTTTTCTAGGAAAAAGGAAACCCTCAAAGCCTCTGAGACTAGGTCACCCCAGTGGGA
CTAGAAGTTCCACGTGGAACCTTCTGCAAACTCCTCTGCAATAGATGGACTGTGCATTTTCCAAATGTGT
CTTTACATCATCTCCTTTCTGACCTTGGGAAGATAGTAACTGACTGTGGAGTAGGAAATCCAGAACCCTG
ATTGTTTTAAATATATTACAGATACAAGTAATGAAAAGAAGGCTCCTAAGGAAAATATAGATCCGTAAT
GGCTTTGTCCCAAAGCTATTAGGCTATAATATTTTATTACAAAGGCTATATTTATTACAAAATGTATTT
AAATAAATACTTAATATTTATTTAAATAAATAATATTTATTTATTATTAATAATTAATATTTAAATAAA
TATAATATTTCTTACAAAAATTAATAACTGGGACTTTATATTTAAAGGTGAGACATTAAATCTTTTTAA
AAAGTGCACATGTAAGATTTTTTCTCAAGTCAACTGAACCAGTTCATCAGTTTCACTATGAATGTGTTG
ATGCACCAAGTATTTACTTTCTAGAACATCTAGTAGACGTCATAAAAAATTATACCAAGTTGAAAAATG
TCACTGAATCAGAGGCATGTGGTTGGTTATGTAGTCATCTGTGCCAGCTGGGAATATAGCAATACCAAAT
GAACAGCACTGCCATGTTCCCTTGCTGGGTTCCAGCAAAAAACACTCATCTTCACTGTGCTCTCTTTGA
GACCTCTTAGAGAGGACTTTGATGAGTGTATGGTCTTATACACACTAGTCTAACAATACACATTTGCTCA
AGGATTGGGTTACGAGCAGGCTCTTACCTTTTCAAGTGAACAATTACACATCAGGAGAAGGATGGAAGTT
TCCTATCTATGAACAAATATTTCCCAAAGCAATAATCTCTTTATTCAACTCACATAATGAGAAGTCAGTT
CCTCTGTGCCATAAAGCAATCTCTTTGAAGTCTTCAGTAATGTTGAGGGTTTTAATGTTGAGGGCTTTAT
CAAACATAACATTCAAGTGTCTTAGGCTTTCCCTTAGTTCCTTGAGCAAATTGGTTGCTATGAAGTATG
TTAGTGTTCGAATGAATGGATAGCATGATGGGGATGTCTAGGTGGTTCCAGAATTTAGATTGTGGTTT
CCATAACAAAGTGTGGCAGTATTGGCATTAGGGAAGAGAAATGACTTCTAAATAACTTCTCAAAGTTTAC
TAAAGCCTTAAGAATGTAGGAAATGGCCACAAAGGAGGTATACAAACATTCTCTGTCTTTATTCCTC
TTTATACAAACGTATTCACTTTCCCATCAGCAAGTCATAAAATACTTCTCATCTTGCATTACAGTAGGAC
ACCTACTATAACAATAGGCTACAAAATGTATAATGGCTCAAACACCTAGCAGTTTATTTCTTATTTACTT
AACAATGCTGGGTCCACGAACATGTTGATATCATAACCCTCTTTTATGTGGTCACTCAGGGACTCAGGCT
GTTGAGGGCTCTGTATCATGAATGGGTGGCTTCCAAGGTCACTCCTAAGAGTTATCTCCATTCTAACCAG
TCCAGCCAGAAAGGCAGAACAGGCTTGGAGGAGCAAAGATATCCATGGATAGATCATCTCTTAAAGTCA
TTGTAGCATTGTGATAGGGCTCTTTTCACAAACAAGGATACAGTCCATGTTTTCAAGATTTTACATTTT
AGTAGCCACAATACAAAGAAGCTAAGATAGTCTTGTGATTTGTATCATGGCTGTTAATGGAGAGTGT
TAAAAGCACTGATATCAGGGCTCCACCCTCAGCTTCCAATCATCAGGTTTGGATGGAACCTGACAGCTGC
ATCTTGTAAACTCCACGGGAGATTCTGAGAGACAGCCAAGTTTGAGATTACAAACCTTAAGAGAAAA
ATCTCCTTGAAATGCCATAACAACTACCAGTCTAATAAAACATACATATTCTTTGACTACTCTTAAAT
GAAACAAATAGGTAATAATTTACCTGTACATATAATTAATAATGTAATGTATTTTATAACCATCATATAA
AGGAGAAATTATATTAACTATATTAAATAAAATGATATATATTTCAATGCAGATGCCCCAAGCTTGACT
AAAGTAGGAAACATAATAAAGTAATAAAATGCTTATATGTACTTATAATGAATGTTTGGCTATGAGAAGA
TGATCAGAGGCTTTTTGTCCAAGAAGTACAGGCATATGAAAAAGTAGAGCAAGAGATGGACACCAGACTG
AGAAACTAAAACTAACCAACCTATTTGTGTATGATAAAAGGAGAGAAAAAATGATTAGTAAAAAT
ATGCTACCGTGTGGTCTGAATGTTTGTCCCTTCCAAACTCATGTTGAAATTTAATCCCCCATGTGGCAG
TATTGAGAAGTGGGACCTTTAAGAGGTGATTGGTTCAAGAAGATTCTGCGCTCATGAGTGGTTGAAACCA
TTCACGGAATAACGGGTAAATGGATCAATGAGTTATCCAGGAGTGGGACTGGTAGCTTTATAAGAGAAG
GAAGAGAGACCTGCGCTAGCACACTCAGCCTCCTTGCCATGTGAGCCATCTCGGGACCCCGCAGAGTCCC
CAGCAGAAAGAAGGCCCTCACCCAATGTGTCCCTTGACCTAGGATTTCTCAACCTCCATAACTGTAGGA
AATGAATTCCTTTCTTTGTAAATTATCCAGTTTCAGGTATTCTGTTATAAACAACAGAAAATGGGCTAA
AACACACGCCAAGAAAAATTGAAAGACTGTGGAAGTGAAAGAAGATAAAAAATGAAGTAATTTTGCAAAT
GAGTCTGGCTTTATTATAAGTGTATTGTCAAAGTGATTCCCTTTGTTATAAGATGAAAAAGAGCCAAAT
GGATAGAAACATTTATCCTATCTTAATATCCCCTACATTCAAGGCAATATTCAGTCAGTCTCTAGAAC
TTAACAAGGCCTTGGAGATGATATCCTTTGGATGAGCAATGGAGAAGACAAGATGGATTGGAAAAAGAAA
CAAACAAACAAAAAACATGTAAGAGGCTATCAGGAAAACTCTGGAGACGATGTCAATGTAAAACAGATA
CAAACCTCAAATAATTTTAAATATGTACATTGCACAAAAATGGACTTCTTATCATGTTACAAATTTATTT
TAAACATATAGGAGGCAACAATAATTTTCAATTGATGTGTACTATTTTATAATTGTTGGCTCTAATTTT
ATTTAGTAGAGTCTTACATCTCCTCTCTACATATTTACATCCGGTTGTATTGTTTTTGTAGTACCTGTTT
AACTGCACTGAAATCATTTTCAATTAATGCATGGTTGAAAAGCTGACATAATACATTCAATTGCCAAAT
GCATAAAGTGAATAAGCTATTTAATAATTTGGAGAAAAATATATTCATTTAAACTTCCTTCTCTATAACC
AGTTCATACACTGGACCTTTTGGGCACAGCCATGTGAAAGCTTTTCAAACCTTTTCACTACTTTTTTTT
AGACGGAGTCTCACTCTGTACCCAGGCTAGAGTGCAGTGGTGGATCTCGGCTCACTGCAACCTCCACC
TCCCAGGTCCAAGTGATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGATTACAGGCACCTGACACCACAC
CTGACTAATTTTTGTAAATTTAGTAGAGACAGGATTTACCATGTTGGCCAGGATGGTCTTGAACCTCTC
ATCTCAAGTGTTCGCTGCCTTGGCCTCCCAAAGTGGTGGGTTACAGGCATGAGTCATTGCACCCAGCC
ACTATAGATTTTTATTGTTAGTAGATTTAGTTCAGTAGGGCATTTGAGAGGCATAGGAAGTGAACAAAT
CCTTCATTGTTTGGGACTGCCTTGACATTGTAGGACATCCAGTACAGTCCCTTCCACGAAGTGGCAGCA
GCAGCCTCGGGCTGTCCAAACACCCTGTTAGGGACAGTGCCACTCCCGGAACCAAGAAACCAATC
ATAGGAGAAGCATACAACAACATGGTGTTCATCGGACGGTCAGCTTCAGTGGCACTTTTGAGCAAGCAC

FIGURE 1, sheet 91 of 94

[illegible]

GCTGCAGCTACCTAGGAACATTTCCTTGCAGACCCCGCATTGCCTTTGGGGGTGCCCTGGGATCCCTGGGG
TAGTCCAGCTCTTATTCATTTCCCAGCGTGGCCCTGGTTGGAAGAAGCAGCTGTCAAGTTGTAGACAGCT
GTGTTCCCTACAATTGGCCCAGCACCCCTGGGGCAGGGGAGAAGGGTGGGGACCGTTGCTGTCACTACTCAG
GCTGACTGGGGCCTGGTCAGATTACGTATGCCCTTGGTGGTTTAGAGATAATCCAAAATCAGGGTTTGGT
TTGGGGAAGAAAATCCTCCCCCTTCCTCCCCCGCCCCGTTCCCTACCGCCTCCACTCCTGCCAGCTCATT
TCCTTCAATTTCTTTGACCTATAGGCTAAAAAAGAAAGGCTCATTCCAGCCACAGGGCAGCCTTCCCTG
GGCCTTTGCTTCTCTAGCACAAATTATGGGTTACTTCCCTTTTCTTAACAAAAAAGAATGTTGATTTCCCT
CTGGGTGACCTTATTGTCTGTAATTGAAACCCTATTGAGAGGTGATGTCTGTGTTAGCCAATGACCCAGG
TAGCTGCTCGGGCTTCTCTTGGTATGTCTTGTGGAAAAGTGGATTTTCATTCATTTCTGATTGTCCAGT
TAAGTGATCACCAAAGGACTGAGAATCTGGGAGGGCAAAAAAAAAAAAAAGTTTTATGTGCACTTAA
ATTTGGGGACAATTTTATGTATCTGTGTTAAGGATATGCTTAAGAACATAATTCTTTTGTGCTGTTTGT
TTAAGAAGCACCTTAGTTTTGTTAAGAAGCACCTTATATAGTATAATATATATTTTTTTTGAATTACATT
GCTTGTTTTATCAGACAATTGAATGTAGTAATTCTGTTCTGGATTTAATTTGACTGGGTAAACATGCAAAA
ACCAAGGAAAAATATTTAGTTTTTTTTTTTTTTTTTGTATACTTTTCAAGCTACCTTGTCTGTATACAG
TCATTTATGCCTAAAGCCTGGTGATTATTCATTTAAATGAAGATCACATTTTCATATCAACTTTTGTATCC
ACAGTAGACAAAATAGCACTAATCCAGATGCCTATTGTTGGATATTGAATGACAGACAATCTTATGTAGC
AAAGATTATGCCTGAAAAGGAAAATTATTCAGGGCAGCTAATTTTGCTTTTACCAAAATATCAGTAGTAA
TATTTTTGGACAGTAGCTAATGGGTGAGTGGGTTCTTTTAAATGTTTATACTTAGATTTTCTTTTAAAAA
AATTAAAATAAAACAAAAAAATTTCTAGGACTAGACGATGTAATACCAGCTAAAGCCAAACAATTATAC
AGTGGAAGGTTTTACATTATTCATCCAATGTGTTTCTATTTCATGTTAAGATACTACTACATTTGAAGTGG
GCAGAGAACATCAGATGATTGAAATGTTGCGCCAGGGGTCTCCAGCAACTTTGGAAATCTCTTTGTATTT
TTACTTGAAGTGCCACTAATGGACAGCAGATATTTTCTGGCTGATGTTGGTATTGGGTGTAGGAACATGA
TTTTAAAAAAAACCTCTTGCTCTGCTTTCCCCCACTCTGAGGCAAGTTAAAATGTAAAAGATGTGATTT
ATCTGGGGGGCTCAGGTATGGTGGGGAAGTGGATTACAGGAATCTGGGGAATGGCAATATATTAAGAAGA
GTATTGAAAGTATTTGGAGGAAAATGGTTAATTCTGGGTGTGCACCAAGGTTTCAGTAGAGTCCACTTCTG
CCCTGGAGACCACAAATCAACTAGCTCCATTTACAGCCATTTCTAAAATGGCAGCTTCAGTTCTAGAGAA
GAAAGAACAACATCAGCAGTAAAGTCCATGGAATAGCTAGTGCTGTGTTTCTTTTCGCCATTGCCTAG
CTTGCCGTAATGATTCTATAATGCCATCATGCAGCAATTATGAGAGGCTAGGTCATCCAAAGAGAAGACC
CTATCAATGTAGGTTGCAAAATCTAACCCTAAGGAAGTGCAGTCTTTGATTTGATTTCCCTAGTAACCT
TGCAGATATGTTTAAACCAAGCCATAGCCCATGCCCTTTTGAGGGCTGAACAAATAAGGGACTTACTGATAA
TTTACTTTTGATCACATTAAGGTGTTCTCACCTTGAAATCTTATACACTGAAATGGCCATTGATTTAGGC
CACTGGCTTAGAGTACTCCTTCCCCCTGCATGACACTGATTACAAATACTTTCCCTATTCATACTTTCCAAT
TATGAGATGGACTGTGGGTACTGGGAGTGATCACTAACACCATAGTAATGTCTAATATTCACAGGCAGAT
CTGCTTGGGGAAGCTAGTTATGTGAAAGGCAAATAAAGTCATACAGTAGCTCAAAGGCAACCATAATTC
TCTTTGGTGCAAGTCTTGGGAGCGTGATCTAGATTACACTGCACCATTCCCAAGTTAATCCCCTGAAAAC
TTACTCTCAACTGGAGCAAATGAACTTTGGTCCCAAATATCCATCTTTTCAGTAGCGTTAATTATGCTCT
GTTTCCAACCTGCATTTCCCTTTCCAATTGAATTAAAGTGTGGCCTCGTTTTAGTCATTTAAAATTGTTTT
CTAAGTAATTGCTGCCTCTATTATGGCACTTCAATTTTGCAGTGTCTTTTGAGATTCAAGAAAAATTTCT
ATTCATTTTTTTGCATCCAATTGTGCCTGAACTTTTAAAATATGTAAATGCTGCCATGTTCCAAACCCAT
CGTCAGTGTGTGTTTAGAGCTGTGCACCCTAGAAACAACATACTTGTCCCATGAGCAGGTGCCTGAGA
CACAGACCCCTTTGCATTACAGAGAGGTCATTGGTTATAGAGACTTGAATTAATAAGTGACATTATGCC
AGTTTCTGTTCTCTCACAGGTGATAAACAATGCTTTTTGTGCACTACATACTCTTCAGTGTAGAGCTCTT
GTTTTATGGGAAAAGGCTCAAATGCCAAATTGTGTTTGTGATTAAATATGCCCTTTTGCCGATGCATAC
TATTACTGATGTGACTCGGTTTTGTGCGCAGCTTGTGTTTGTAAATGAAACACACTTGTAACCTCTTTT
GCACTTTGAAAAAGAATCCAGCGGGATGCTCGAGCACCTGTAAACAATTTTCTCAACCTATTTGATGTTT
AAATAAAGAATTAAACT

SNP Position	Reference Sequence & SNP Position Number ¹	Nucleotide Change	AA Change	Frequency in Liverpool		Number of individuals with a change in heterozygosity ²	Number of individuals with a loss in heterozygosity ³	In which Populations observed ⁴
				Blood.	Tumor			
Exon 1A *	170035	C to A (ACTTGCTCCCG)	None (5'-UTR)	0/84 0%	0/92 0%	0	0	3(C)
Exon 1A	170068	G to T (CGCAGGCTCCC)	None (5'-UTR)	1/88 1%	1/94 1%	0	0	2
Exon 1A	170256	T to C (GCATCTGGGAT)	Silent (Ser-Ser)	45/90 50%	52/94 55%	6	0	2, 3(all), 6
Exon 1A	170368	A to G (GCAGCAAGCCC)	Lys-Glu	1/92 1%	1/96 1%	0	0	2, 3(A)
Exon 1A	170487	G to C (GCTGCGGCGTT)	Silent (Ala-Ala)	7/90 8%	12/94 13%	4	0	2, 3(N,C,A), 6
Exon 1B	169812	C to G (AGCAGCGACGA)	None (5'-UTR)	1/96 1%	1/96 1%	0	0	2, 3(A,S)
Exon 1B	169823	A to G (CAAGTAAAGTA)	None (5'-UTR)	1/96 1%	1/96 1%	0	0	2
Intron 1D	167950	C to G (CTTCCC GAATC)	None (-59 promoter)	2/96 2%	2/96 2%	0	0	2
Intron 1D	167989	T to G (CACACTCTCTC)	None (-20 promoter)	15/118 13.6%	14/116 12.1%	3	0	2, 3(all)
Exon 1C	168054	C to G (TCTCACTCTCT)	None (5'-UTR)	1/96 1%	1/96 1%	0	0	2
Intron 1E	64331	A to G (TCCGTAAATTG)	None (+ 42 intron)	35/96 36%	36/96 38%	4	0	2, 3(N,I,A,S)
Exon 1F	52901	G to A (CTATAGCATAA)	None (5'-UTR)	0/74 0%	0/78 0%	0	0	3(A)
Exon 1F	52877	C to A (CCATGCTCCTT)	None (5'-UTR)	2/72 3%	0/78 0%	0	0	2, 3(N)
Exon 1G 5' genomic *	18783	C to T (TGAGACGATTG)	None (-42 inton)	0/96 0%	0/96 0%	0	0	3 (A)
Exon 1G 5' genomic *	18937	A to C (GTTCCAAGCAG)	None (-4 intron)	0/96 0%	0/96 0%	0	0	3 (C)
Intron 1G *	19034	T to C (GAAGGTAAGTT)	None (+2 intron)	1/96 1%	0/96 0%	1	0	2
Intron 3	243187	T to C TTTTTCTTTT	None (+101 intron)	39/96 41%	36/96 38%	3	0	2, 3(all)

FIGURE 2a, sheet 1 of 4

SNP Position	Reference Sequence & SNP Position Number ¹	Nucleotide Change	AA Change	Frequency in Liverpool		Number of individuals with a change in heterozygosity ²	Number of individuals with a loss in heterozygosity ³	In which Populations observed ⁴
				Blood.	Tumor			
Exon 3	243055	C to T CTCCGC A AATG	Silent (Arg-Arg)	2/96 2%	3/96 3%	1	0	2, 6
Exon 4	306292	G to A (AGCCCGCTCAT)	Silent (Pro-Pro)	1/96 1%	1/94 1%	0	0	2
Exon 4	306382	C to G (CCCCC C ATACT)	Silent (Pro-Pro)	17/96 18%	16/94 17%	4	0	2, 3(C,I,S),6
Exon 6 *	423067	T to C (TTGTGTGCCTC)	Cys-Arg	0/96 0%	0/96 0%	0	0	3(N)
Intron 6	423149	T to G (TTGTATTTTTC)	None (+52 intron)	11/96 11%	12/96 13%	0	0	2, 3(N,C,I,A)
Intron 6	423163	A to G (CAGATACGATC)	None (+66 intron)	10/96 10%	10/96 10%	1	0	2, 3(N,C,I,A)
Intron 6	423220	G to A (CACACGTTTTA)	None (+123 intron)	29/96 30%	29/96 30%	3	1	2, 3(N,C,I,A)
Intron 6	423232	C to G (AATAACCTACC)	None (+135 intron)	2/96 2%	2/96 2%	0	0	2
Intron 6	423258	A to G (TTATAAAGGTA)	None (+161 intron)	12/84 13%	11/96 12%	0	0	2, 3(N,C,I,A)
Intron 8	459706	G to C (TTCCCCGCTGCC)	None (-994 intron)	seq in	Coriell only	n/a	n/a	3(I)
Intron 8	459832	G to A (TGCACGTGTGT)	None (-868 intron)	seq in	Coriell only	n/a	n/a	3(S)
Intron 8	459913	A to G (AAAACAGAACG)	None (-787 intron)	seq in	Coriell only	n/a	n/a	3(N,I)
Intron 8	460024	C to G (TTCATCCCAGC)	None (-676 intron)	seq in	Coriell only	n/a	n/a	3(all)
Intron 8	460056	C to T (GTCCCCCTAAGT)	None (-644 intron)	seq in	Coriell only	n/a	n/a	3(I)
Intron 8 *	460159	A to G (CATGGATGGAA)	None (-541 intron)	seq in	Coriell only	n/a	n/a	3(S)
Intron 8	460553	T to C (CAGCTTCCATC)	None (-147 intron)	2/82 2%	4/92 4%	0	0	2, 3(I)
Intron 8	460564	G to A (CTAAAGTGGGT)	None (-136 intron)	82/82 0%	91/92 1%	1	0	2
Exon 8	460929	A to G (GCCACAGTCTG)	Silent (Thr-Thr)	76/96 80%	83/96 86%	3	0	1, 2, 3(all), 5, 6

FIGURE 2a, sheet 2 of 4

SNP Position	Reference Sequence & SNP Position Number ¹	Nucleotide Change	AA Change	Frequency in Liverpool		Number of individuals with a change in heterozygosity ²	Number of individuals with a loss in heterozygosity ³	In which Populations observed ⁴
				Blood.	Tumor			
Exon 8	461199	T to C (GAGGATTC CCG)	None (3'-UTR)	1/88 1%	1/94 1%	0	0	2
Exon 8	461231	A to G (AGTCTATGGGT)	None (3'-UTR)	1/90 1%	1/94 1%	0	0	2
Exon 8	461337	A to C (CTAAGAATAAG)	None (3'-UTR)	0/90 0%	0/94 0%	0	0	3(A)
Exon 8	461520	G to C (ATTCCGCCCTAT)	None (3'-UTR)	3/92 3%	3/96 3%	0	0	2
Exon 8	461843	G to A CCGGCGTGTGT	None (3'-UTR)	1/90 1%	1/96 1%	0	0	2
Exon 8	461968	T to C (AGTACTTGTGTC)	None (3'-UTR)	43/89 48%	46/94 49%	3	2	2, 3(all)
Exon 8	462125	C to T (GGTGGCCCTGGG)	None (3'-UTR)	0/92 0%	0/94 0%	0	0	3(A)
Exon 8 *	462398	G to A (CTACCGCCTCC)	None (3'-UTR)	0/84 0%	0/94 0%	0	0	3(A)
Exon 8	462683	C to A (TCATTTCATTTC)	None (3'-UTR)	3/92 3%	5/96 5%	2	1	2, 3(I,A,S)
Exon 8	462949	T to G (TGTTCCTGGATT)	None (3'-UTR)	0/82 0%	0/96 0%	0	0	3(A,S)
Exon 8	463958	T to C (TTGCCCTAGCTT)	None (3'-UTR)	5/80 6%	4/90 4%	1	0	2, 3(N)
Exon 8	463966	C to T (CTTGCCGTAAT)	None (3'-UTR)	1/82 1%	1/90 1%	0	0	2, 3(N)
Exon 8	464237	G to A (GCCTCGTTTTT)	None (3'-UTR)	2/90 2%	2/94 2%	0	0	2
Exon 8	464735	A to T (TATTTCATTTTT)	None (3'-UTR)	9/90 10%	4/96 4%	1	0	2, 3(N,C,I,A)
Exon 8 *	465074	T to C GCCGATGCATA	None (3'-UTR)	0/84 0%	0/94 0%	0	0	3(N,C,I,A)
Exon 8	AL078582 (54404)	A to G (ATCAAAGTGGT)	None (3'-flanking)	20/78 26%	23/88 26%	5	2	2, 3(N,C,I,A)
Exon 8	AL078582 (54460)	C to A CTCACCTCACT	None(3'- flanking)	3/76 4%	2/76 3%	0	0	2, 3(C,I,N)

FIGURE 2a, sheet 3 of 4

* SNPs in Liverpool clinical tissue samples. Seen only one time and may represent sequencing artifacts. They are not included in the total counts of SNPs.

1. The SNP position number in the parenthesis is based on the beginning of each exon as 1. For SNPs within the introns, - sign was used for the ones in upstream introns and + sign for downstream introns referring the first base of the intron adjacent to the exon as 1.
2. For some heterozygosity calculations, individuals 47 and 48 were excluded because it is believed that the blood or the tumor sample was switched. These excluded cases were t=when both individuals showed a change in heterozygosity.
3. Loss of heterozygosity calculation includes any case where a heterozygous blood genotype became a homozygous genotype of the minor allele in the same individual's tumor sample. A change from a homozygous genotype of the major allele in the blood sample into a homozygous genotype of the minor allele in the tumor sample would also be counted
4. Code is as follows
 - 1: SNP discovered in cDNA SNP project
 - 2: SNP discovered in Liverpool DNA
 - 3: SNP discovered in Coriell (N=Northern European, C=Chinese, I=Indo-Pakistani, A=African American, S=Southwestern Native American)
 - 4: SNP discovered in CEPH
 - 5: Roodi N., Bailey R., Kao W. Y., Verrier C., Yee C., Dupont W., and Parl F. F. J. Natl. Cancer Inst. 87 (1995) 446-451.
 - 6: Parl, Fritz, Estrogens, Estrogen Receptor and Breast Cancer, IOS Press: Amsterdam, 2000.

Andersen TI et al. Human Mutation (1997) 9:531-536 : G to T at 838 of x03635

SNP Position	Reference Sequence & SNP Position #	Nucleotide Change	AA Change	Coriell Frequencies					Liverpool Frequencies	
				N.Eur	Chi	In-Pk	Af/Am	SW-NA	Blood	Tumor
Exon 1A *	170035	C to A ACTTGCTCCGT	None (5'UTR)	0/20 0%	1/20 5%	0/20 0%	0/18 0%	0/20 0%	0/84 0%	0/92 0%
Exon 1A	170068	G to T CGCAGGCTCCC	None (5'UTR)	0/20 0%	0/20 0%	0/20 0%	0/18 0%	0/20 0%	1/88 1%	1/94 1%
Exon 1A	170256	T to C (GCATCTGGGAT)	Silent (Ser-Ser)	11/20 55%	10/20 50%	10/20 50%	9/18 50%	5/20 25%	45/90 50%	52/94 55%
Exon 1A	170368	A to G GCAGCAAGCCC	Lys-Glu	0/20 0%	0/20 0%	0/20 0%	0/18 0%	0/20 0%	1/92 1%	1/96 1%
Exon 1A	170487	G to C (GCTGCCGGCGTT)	Silent (Ala-Ala)	2/20 10%	1/20 5%	0/20 0%	1/18 6%	0/20 0%	7/90 8%	12/94 13%
Exon 1B	169812	C to G (AGCAGCGACGA)	None (5'-UTR)	0/20 0%	0/20 0%	0/20 0%	2/20 10%	4/20 20%	1/96 1%	1/96 1%
Exon 1B	169823	A to G (CAAGTCAGTG)	None (5'-UTR)	0/20 0%	0/20 0%	0/20 0%	0/20 0%	0/20 0%	1/96 1%	1/96 1%
Intron 1D	167950	C to G (CTTCCCGAATC)	None (-59 promoter)	0/16 0%	0/20 0%	0/20 0%	0/18 0%	0/18 0%	2/96 2%	2/96 2%
Intron 1D	167989	T to G (CACACTCTCTC)	None (-20 promoter)	1/18 5%	5/20 25%	5/20 25%	7/18 39%	5/18 28%	15/96 17%	16/96 17%
Exon 1C	168054	C to G (TCTCACTCTCT)	None (-6 promoter)	0/18 0%	0/20 0%	0/20 0%	0/18 0%	0/18 0%	1/96 1%	1/96 1%
Intron 1E	64331	C to T (CAATTACCGGA)	None (+42 intron)	5/11 45%	0/16 0%	5/18 28%	4/18 22%	2/16 13%	35/96 36%	36/96 38%
Exon 1F *	52901	C to T (TTATGCTATAG)	None (-44 promoter)	0/20 0%	0/20 0%	0/20 0%	1/18 6%	0/16 0%	0/74 0%	0/78 0%
Exon 1F	52877	G to T (AAGGAGCATGG)	None (-68 promoter)	1/20 5%	0/20 0%	0/20 0%	0/18 0%	0/16 0%	2/72 3%	0/78 0%
Exon 1G Promoter Region *	18783	C to T (TGAGACGATTG)	None (-42 intron)	0/20 0%	0/20 0%	0/20 0%	1/20 5%	0/20 0%	0/96 0%	0/96 0%
Exon 1G Promoter Region *	18937	A to C (GTTCCAAGCAG)	None (-4 intron)	0/20 0%	1/20 5%	0/20 0%	0/20 0%	0/20 0%	0/96 0%	0/96 0%
Intron 1G *	19034	T to C (GAAGGTAAGTT)	None (+2 intron)	0/20 0%	0/20 0%	0/20 0%	0/20 0%	0/20 0%	1/96 1%	0/96 0%
Intron 3	243187	T to C TTTTTCTTTT	None (+101 intron)	12/18 67%	6/20 30%	5/20 25%	5/18 28%	2/16 13%	39/96 41%	36/96 38%

FIGURE 2b, sheet 1 of 3

SNP Position	Reference Sequence & SNP Position #	Nucleotide Change	AA Change	Coriell Frequencies					Liverpool Frequencies	
				N.Eur	Chi	In-Pk	Af/Am	SW-NA	Blood	Tumor
Exon 3	243055	C to T CTCCGCAAATG	Silent (Arg-Arg)	0/18 0%	0/20 0%	2/20 10%	0/20 0%	0/18 0%	2/96 2%	3/96 3%
Exon 4	306292	G to A (AGCCCGCTCAT)	Silent (Pro-Pro)	0/8 0%	0/14 0%	0/14 0%	0/2 0%	0/12 0%	1/96 1%	1/94 1%
Exon 4	306382	C to G CCCCCATACT	Silent (Pro-Pro)	0/8 0%	14/16 25%	14/16 25%	0/6 0%	2/13 15%	17/96 18%	16/94 17%
Exon 6 *	423067	T to C (TTGTGTGCCCCC)	Cys-Arg	1/20 5%	0/20 0%	0/20 0%	0/20 0%	0/16 0%	0/96 0%	0/96 0%
Intron 6	423149	T to G (TTGTATTTTTC)	None (+52 intron)	3/20 15%	7/20 35%	2/18 11%	6/20 30%	0/16 0%	11/96 11%	12/96 13%
Intron 6	423163	A to G (CAGATACGATC)	None (+66 intron)	1/20 5%	6/20 30%	2/20 10%	3/20 15%	0/16 0%	10/96 10%	10/96 10%
Intron 6	423220	G to A (CACACGTTTTA)	None (+123 intron)	4/20 20%	5/20 25%	8/20 40%	7/20 35%	0/16 0%	29/96 30%	29/96 30%
Intron 6	423232	C to G (AATAACCTACC)	None (+135 intron)	0/20 0%	0/20 0%	0/20 0%	0/20 0%	0/16 0%	2/96 2%	2/96 2%
Intron 6	423258	A to G (TTATAAAGGTA)	None (+161 intron)	3/20 15%	7/20 35%	3/20 15%	6/20 30%	0/16 0%	12/84 13%	11/96 12%
Intron 8	459706	G to C (TTCCCCTGCC)	None (-994 intron)	16/16 100%	14/14 100%	20/20 100%	15/16 94%	5/5 100%	seq only	in Coriell
Intron 8	459832	G to A (TGCACGTGTGT)	None (-868 intron)	0/20 0%	0/18 0%	0/20 0%	0/16 0%	1/16 6%	seq only	in Coriell
Intron 8	459913	A to G (AAACAGAACG)	None (-787 intron)	1/20 5%	0/18 0%	0/20 0%	1/16 6%	0/16 0%	seq only	in Coriell
Intron 8	460024	C to G (TTCATCCCAGC)	None (-676 intron)	6/20 30%	4/18 22%	5/18 28%	11/16 69%	4/12 33%	seq only	in Coriell
Intron 8 *	460056	C to T (CTAAGAATAAG)	None (-644 intron)	0/20 0%	0/18 0%	0/20 0%	1/16 6%	0/12 0%	seq only	in Coriell
Intron 8 *	460159	A to G (CATGGATGGAA)	None (-531 intron)	0/20 0%	0/18 0%	0/20 0%	0/14 0%	1/12 8%	seq only	in Coriell
Exon 8	460553	C to T (CAGCTCCCATC)	None (-147 intron)	0/16 0%	0/18 0%	1/20 5%	0/18 0%	0/20 0%	2/82 2%	4/92 4%
Exon 8	460564	G to A (CTAAAGTGGGT)	None (-136 intron)	16/16 100%	18/18 100%	18/18 100%	18/18 100%	20/20 100%	82/82 100%	91/92 99%
Exon 8	460929	A to G (GCCACAGTCTG)	Silent (Thr-Thr)	16/20 80%	17/20 15%	16/20 80%	16/20 80%	14/20 70%	76/96 80%	83/96 86%
Exon 8	461199	T to C (GAGGATTCCCCG)	None (3' UTR)	0/18 0%	0/18 0%	0/20 0%	0/18 0%	0/20 0%	1/88 1%	1/94 1%

FIGURE 2b, sheet 2 of 3

SNP Position	Reference Sequence & SNP Position #	Nucleotide Change	AA Change	Coriell Frequencies					Liverpool Frequencies		
				N.Eur	Chi	In-Pk	Af/Am	SW-NA	Blood	Tumor	
Exon 8	461231	A to G (AGTCTATGGGT)	None (3' UTR)	0/18 0%	0/18 0%	0/20 0%	0/18 0%	0/20 0%	1/90 1%	1/94 1%	
Exon 8	461337	A to C (CTAAGATAAG)	None (3'-UTR)	0/18 0%	0/18 0%	0/20 0%	3/18 17%	0/20 0%	0/90 0%	0/94 0%	
Exon 8	461520	G to C (ATTCCGCCTAT)	None (3' UTR)	0/20 0%	0/20 0%	0/20 0%	0/20 0%	0/20 0%	3/92 3%	3/96 3%	
Exon 8	461843	G to A CCGGCGTGTGT	None (3' UTR)	0/20 0%	0/20 0%	0/20 0%	0/20 0%	0/20 0%	1/90 1%	1/96 1%	
Exon 8	461968	T to C (AGTACTTGTGC)	None (3'-UTR)	9/20 45%	8/20 40%	13/20 60%	11/20 55%	7/20 35%	43/89 48%	46/94 49%	
Exon 8	462125	C to T (GGTGCCCTGGG)	None (3'-UTR)	0/20 0%	0/20 0%	0/20 0%	2/20 10%	0/20 0%	0/92 0%	0/94 0%	
Exon 8 *	462398	G to A (CTACCGCCTCC)	None (3'-UTR)	0/20 0%	0/20 0%	0/20 0%	1/20 5%	0/20 0%	0/84 0%	0/94 0%	
Exon 8	462683	C to A (TCATTCAATTC)	None (3'-UTR)	0/20 0%	2/20 10%	1/20 5%	1/20 5%	7/20 35%	3/92 3%	5/96 5%	
Exon 8	462949	T to G (TGTTCGGATT)	None (3'UTR)	0/20 0%	0/20 0%	0/20 0%	1/20 5%	1/20 5%	0/82 0%	0/96 0%	
Exon 8	463958	T to C (TTGCCCTAGCTT)	None (3'-UTR)	2/20 10%	0/20 0%	0/20 0%	0/20 0%	0/20 0%	5/80 6%	4/90 4%	
Exon 8	463966	C to T (CTTGCCGTAAT)	None (3'-UTR)	0/20 0%	0/20 0%	0/18 0%	0/16 0%	0/20 0%	1/82 1%	1/90 1%	
Exon 8	464237	G to A (GCCTCGTTTTT)	None (3'-UTR)	0/20 0%	0/20 0%	0/20 0%	0/20 0%	0/20 0%	2/90 2%	2/94 2%	
Exon 8	464735	A to T (TATTCATTTTT)	None (3'-UTR)	2/20 10%	2/20 10%	1/20 5%	0/20 0%	8/20 40%	9/90 10%	4/96 4%	
Exon 8 *	465074	T to C GCCGATGCATA	None (3'-UTR)	0/20 0%	1/20 5%	0/20 0%	0/20 0%	0/20 0%	0/84 0%	0/94 0%	
Exon 8	AL078582 (54404)	A to G (ATCAAAGTGGT)	None (3'-flanking)	3/20 15%	2/18 22%	3/20 15%	1/14 7%	0/20 0%	20/78 26%	23/88 26%	
Exon 8	AL078582 (54460)	C to A CTCACCTCACT	None (3'-flanking)	0/18 0%	1/16 14%	1/18 6%	0/10 0%	7/20 35%	3/76 4%	2/76 3%	

*. SNPs in Coriell Diversity panels. Seen only one time and may represent sequencing artifacts. They are not included in the total counts of SNPs.

FIGURE 2b, sheet 3 of 3

SNP Position	Reference Sequence & SNP Position #	Nucleotide Change	AA Change	Liverpool Control Frequencies	Liverpool Frequencies	
					Blood	Tumor
Exon 1A	170035 (169)	C to A ACTTG <u>C</u> TCCGT	None (5'UTR)		0/84 0%	0/92 0%
Exon 1A	170068 (202)	G to T CGCAGG <u>G</u> CTCCC	None (5'UTR)		1/88 1%	1/94 1%
Exon 1A	170256 (390)	T to C (GCATCT <u>T</u> GGGAT)	Silent (Ser-Ser)		45/90 50%	52/94 55%
Exon 1A	170368 (502)	A to G GCAGCA <u>A</u> AGCCC	Lys-Glu		1/92 1%	1/96 1%
Exon 1A	170487 (621)	G to C (GCTGCG <u>G</u> CGTT)	Silent (Ala-Ala)		15/120 12.5%	14/120 11.7%
Exon 1B	169812 (2589)	C to G (AGCAGC <u>G</u> ACGA)	None (5'-UTR)	3/180 2%	1/96 1%	1/96 1%
Exon 1B	169823 (2600)	A to G (CAAGT <u>C</u> AGTG)	None (5'-UTR)	0/180 0%	1/96 1%	1/96 1%
Intron 1D	167950 (741)	C to G (CTTCC <u>C</u> GAATC)	None (-39 promoter)	19/190 10%	2/96 2%	2/96 2%
Intron 1D	167989 (780)	T to G (CACACT <u>T</u> CTCTC)	None (-13 promoter)	12/114 10.5%	16/118 13.6%	14/116 12.1%
Exon 1C	168054 (844)	C to G (TCTCA <u>T</u> CTCT)	None (5'-UTR)	0/192 0%	1/96 1%	1/96 1%
Intron 1E	64331 (56346)	C to T (CAATT <u>C</u> ACGGA)	None (+ 51 intron)		35/96 36%	36/96 38%
Exon 1F	52901 (67777)	C to T (TTATG <u>C</u> TATAG)	None (5'-UTR)		0/74 0%	0/78 0%
Exon 1F	52877 (67801)	G to T (AAGGAG <u>G</u> CATGG)	None (5'-UTR)		2/72 3%	0/78 0%
Exon 1G 5' genomic	18783 (18783)	C to T (TGAGAC <u>G</u> ATTG)	None (-158 intron)		0/96 0%	0/96 0%
Exon 1G 5' genomic	18937 (18937)	A to C (GTTCCAAGCAG)	None (-4 intron)		0/96 0%	0/96 0%
Intron 1G	19034 (19034)	T to C (GAAGGTAAGTT)	None (+2 intron)		1/96 1%	0/96 0%
Intron 3	243187 (1120+101)	T to C TTTTT <u>T</u> CTTTT	None (+101 intron)	40/158 25%	39/96 41%	36/96 38%
Exon 3	243055 (1089)	C to T CTCCG <u>C</u> AAATG	Silent (Arg-Arg)	11/184 6%	2/96 2%	3/96 3%
Exon 4	306292 (1245)	G to A (AGCCC <u>G</u> CTCAT)	Silent (Pro-Pro)		27/116 23.3%	24/116 21.4%
Exon 4	306382 (1335)	C to G CCCCC <u>C</u> ATACT	Silent (Pro-Pro)		17/96 18%	16/94 17%
Exon 6	423067 (1699)	T to C (TTGTG <u>T</u> GCCTC)	Cys-Arg	0/186 0%	0/96 0%	0/96 0%
Intron 6	423149 (1729+52)	T to G (TTGTAT <u>T</u> TTTTC)	None (+52 intron)	16/38 42%	11/96 11%	12/96 13%
Intron 6	423163 (1729+66)	A to G (CAGATA <u>C</u> GATC)	None (+66 intron)	0/174 0%	10/96 10%	10/96 10%

FIGURE 2c, page 1 of 3

SNP Position	Reference Sequence & SNP Position #	Nucleotide Change	AA Change	Liverpool Control Frequencies	Liverpool Frequencies	
					Blood	Tumor
Intron 6	423220 (1729+123)	G to A (CACAC <u>G</u> TTTTA)	None (+123 intron)	32/164 20%	29/96 30%	29/96 30%
Intron 6	423232 (1729+135)	C to G (AATAAC <u>C</u> CTACC)	None (+135 intron)	1/156 0.6%	2/96 2%	2/96 2%
Intron 6	423258 (1729+161)	A to G (TTATAA <u>A</u> AGGTA)	None (+161 intron)		12/84 13%	11/96 12%
Intron 7	459706 (1914-994)	G to C (TTCCC <u>G</u> CTGCC)	None (-995 intron)		seq only	in Coriell
Intron 7	459832 (1914-868)	G to A (TGCAC <u>G</u> TGTGT)	None (-869 intron)		seq only	in Coriell
Intron 7	459913 (1914-787)	A to G (AAAACAGAA <u>C</u> G)	None (-787 intron)		seq only	in Coriell
Intron 7	460024 (1914-676)	C to G (TTCATC <u>C</u> CCAGC)	None (-677 intron)		seq only	in Coriell
Intron 7	460056 (1914-644)	C to T (CTAAG <u>A</u> ATAAG)	None (-645 intron)		seq only	in Coriell
Intron 7	460159 (1914-531)	A to G (CATGG <u>A</u> TGGAA)	None (-542 intron)		seq only	in Coriell
Intron 7	460553 (1914-147)	C to T (CAGCTC <u>C</u> CCATC)	None (-148 intron)		2/82 2%	4/92 4%
Intron 7	460564 (1914-136)	G to A (CTAAAGTGGG <u>T</u>)	None (-137 intron)	56/56 100%	82/82 100%	91/92 99%
Exon 8	460929 (2142)	A to G (GCCAC <u>A</u> GTCTG)	Silent (Thr-Thr)	83/100 83%	76/96 80%	83/96 86%
Exon 8	461199 (2412)	T to C (GAGGATTCC <u>C</u> G)	None (3'UTR)	1/136 0.7%	1/88 1%	1/94 1%
Exon 8	461231 (2444)	A to G (AGTCTA <u>T</u> GGGT)	None (3'UTR)	1/140 0.7%	1/90 1%	1/94 1%
Exon 8	461337 (2550)	A to C (CTAAG <u>A</u> ATAAG)	None (3'-UTR)	1/128 0.8%	0/90 0%	0/94 0%
Exon 8	461520 (2733)	G to C (ATTCC <u>G</u> CCCTAT)	None (3'-UTR)	1/111 0.9%	3/92 3%	3/96 3%
Exon 8	461843 (3056)	G to A (CCGGC <u>G</u> TGTGT)	None (3'-UTR)	0/130 0%	1/90 1%	1/96 1%
Exon 8	461968 (3181)	T to C (AGTACTTGT <u>G</u> C)	None (3'-UTR)	58/126 46%	43/89 48%	46/94 49%
Exon 8	462125 (3338)	C to T (GGTGCC <u>C</u> CTGGG)	None (3'-UTR)	0/104 0%	0/92 0%	0/94 0%
Exon 8	462398 (3611)	G to A (CTACCGCCT <u>C</u> C)	None (3'-UTR)		0/84 0%	0/94 0%
Exon 8	462683 (3896)	C to A (TCATT <u>C</u> ATTTC)	None (3'-UTR)		3/92 3%	5/96 5%
Exon 8	462949 (4162)	T to G (TGTTCTIGG <u>A</u> T)	None (3'UTR)		0/82 0%	0/96 0%
Exon 8	463958 (5171)	T to C (TTGCC <u>T</u> AGCTT)	None (3'-UTR)		5/80 6%	4/90 4%
Exon 8	463966 (5179)	C to T (CTTGCCGTA <u>A</u> T)	None (3'-UTR)		1/82 1%	1/90 1%
Exon 8	464237 (5849)	G to A (GCCTCGT <u>T</u> TTTT)	None (3'-UTR)		2/90 2%	2/94 2%

FIGURE 2c, page 2 of 3

SNP Position	Reference Sequence & SNP Position #	Nucleotide Change	AA Change	Liverpool Control Frequencies	Liverpool Frequencies	
					Blood	Tumor
Exon 8	464735 (5948)	A to T (TATTC <u>A</u> TTTTT)	None (3'-UTR)		9/90 10%	4/96 4%
Exon 8	465074 (6287)	T to C GCCGAT <u>G</u> CATA	None (3'-UTR)		0/84 0%	0/94 0%
3'-flanking Exon 8	AL078582 (54404)	A to G (ATCAA <u>A</u> GTGGT)	None (3'-flanking)	38/180 21%	20/78 26%	23/88 26%
3'-flanking Exon 8	AL078582 (54460)	C to A CTCAC <u>C</u> TCACT	None(3'- flanking)	9/174 5%	3/76 4%	2/76 3%

(blank cells mean the controls have not been genotyped for that SNP)

Figure 2d

PCR primers

Exon	Primer Position	PCR Product Length (bp)	Forward Primer	Reverse Primer
1A	ER1xAF-1. ER1xAR-1	930	M13f-GCTCGTTCTCCAGGTAGTAGGGCA	M13r-GGGGCACATAAGGCAGCACA
1B	-161/ exon1B /+154	472	TGCAACCGGCACACCCCATTCATCTG	GGGCTCCAACTTTAAGTACTGGTCTCC
1C	-227/ exon1C /+107	445	GGTTTCTCCTCCCCAGTACAGCTTTC	AGAACAGCAATCCTCATCTCCCTGC
1D	-225/ exon1D /+123	444	TCTCAAAAGGGAGTGGCCGAAATGC	TACTGTGCTACGCCGACTTTCCTC
1E	-187/ exon1E /+163	472	AGCCAAACATTGATTCTTCAGTGCC	AAGCAACGCATGTAGAGTGCCC
1F	-316/ exon 1F /+144	587	GCAAAATATCCTTGGAGCAGAAAGAC	TTTCCAACTCCACATGCCTGTC
1G	18711/ exon 1G / 19200	489	TTGGCCAAACATTTTCCCTCA	TCCACACGCCTTGTCTTGGT
2	-170/ exon2 /+240	600	ATAGGCCAACACCTTTTGCTGCAACAG	ATTGAGTCTTGCCAAAGGAAGGAGC
3	exon 3	483	CACCTCAAGAAGACAGAAAAGGCA	TTAGAAATTTCAGTTCAGACACTTCCA
4	-156/ exon4 /+103	602	GCCACTTGTGTGAACACCTTACCG	CATGTGTAATGCGTCTCTTTTCCCCC
4?			GCCACTTGTGAACACTTACC	CATGTTATTGCTTCTTTTCCCCC
5	-218/ exon5 /+194	553	TCTCCTTCCCTTTCCCTTTTACGC	GGAAATGAGGACTCATTCAGGAC
6	-278/ exon6 /+94	502	CCATATTTAACATGGCAGACTTGAGGAC	GACATTATGCCTTTGGAGTGGTAG
7	-195/ exon7 /+235	550	CAGAGCATCCCCATTGCTAGACTACTG	AAGCGTAAGTATCGCTTCCCTCTATGCC
8	-76/ 501 exon8 /	577	TTCCCTTCTAGGGATTTCAGCAC	TCCTCACGCTTAGTAACATAGCAAG
8.3	49579-51263	1684	AAATGAAAAACACACGGCCATGA	CCACGCTGGGAAATGAAGAAGA
8.17	52232-53728	1496	GCACTAATCCAGATGCCCTATTGTTGG	GCCACACTTTTAATTCAATTGGAAAGG
8.18	53410-54908	1498	GAGATGGACTGTGGTACTGGGAGT	AGGTAGCTCCAAAAGGGAAGGGAGT
8.25	51167-52387	1220	AGCTACCTAGGAACATTCCTTGCAGACC	TCCAACAATAGGCATCTGGATTAGTGCT

Figure 2e

Sequencing Primers (Unless indicated, PCR primers were used as sequencing primers)

Exon	Primer Name	
Exon 1A	M13f	TGTAAACGACGGCCAGT
Exon 1A	M13r	CAGGAACACAGCTATGACC
Exon 1A	ER1sq1Af.2	CTCCAGCACCTTTGTAAT
Exon 1G	ER1Gsf1_18720	CAGTATTGGCCCAACATTTTC
Exon 1G	ER1Gsr1_19198	TGGTATCACCTTTTGAGACA
Exon 8.3	E1.8_49979	AAAGTATTACATCACGGGG
Exon 8.3	E1.8_50379	TGGAGAGTAGACATTTTGCC
Exon 8.3	E1.8_50806	AGGGATAAGTTCCTGATTTTG
Exon 8.17	ER1x8.17sf1_52232	GCACATAATCCAGATGCCAT
Exon 8.17	ER1x8.17sf2_52684	TTGGTATTGGGTGTAGGAAC
Exon 8.17	ER1x8.17sf3_53160	GGAAGTCAGTCTTTTGATTT
Exon 8.17	ER1x8.17sr1_53702	AAATGCAGTTGGAAACAGAG
Exon 8.17	ER1x8.17sr2_53258	AAGTCCCTTATTTGTTCAGC
Exon 8.17	ER1x8.17sr3_52784	CCCCAGATAAATCACATCTT
Exon 8.18	ER1x8.18sf1_43410	GAGATGGACTGTGGGTACTG
Exon 8.18	ER1x8.18sf2_54033	GCCAGTTTCTGTCTCTCAC
Exon 8.18	ER1x8.18sf3_54443	CTAAAGCCTCTCCTCACCTC
Exon 8.18	ER1x8.18sr1_54906	GTAGCTCCAAAAAGGGAAG
Exon 8.18	ER1x8.18sr2_54379	ACTGCTAGCAAGAAAGTGAG
Exon 8.18	ER1x8.18sr3_54048	GAGAACAGAAACTGGCATAA
Exon 8.25	ER1x8.25sf1_51173	CTAGGAACATTCCCTTGCAGA
Exon 8.25	ER1x8.25sf3_51929	CTGTTTGTTTAAGAAGCACCT
Exon 8.25	ER1x8.25sr2_51945	GCTTCTTAAACAAACAGCAAC
Exon 8.25	ER1x8.25sr3_51565	TGGAATGAGCCTTTCTTTT
Exon 8.25	ER1x8.23r_52258	TCCAACAATAGGCATCTGGATTAGTGCT
Exon 8.25	ER1x8.25sf4_51860	CACCTTAAATTGGGGACAAT
Exon 8.25	ER1x8.25sr4_52072	GCATGTAAACCCAGTCAAAT

(SEQ ID NO:2)

Figure 3: Amino Acid Sequence for the Estrogen Receptor Alpha

```
1  mtmtlhtkas gmallhqi qg neleplnrpq lkiplerplg evyldsskpa vynypegaay
61  efnaaaaaana qvygqgtglpy gpgseaaaafg snglggfppl nsvspsplml lhpppqslspf
121 lqphgqqvpy ylenepsgyt vreagppafy rpnsdnrrqg grerlastnd kgsmamesak
181 etrycavcnd yasgyhygvw scegckaffk rsiqghndym cpatnqctid knrrkscqac
241 rlrkcyevgm mkggirkdrr ggrmlkhkrq rddgegrgev gsagdmraan lwpsplmikr
301 skknsllalsl tadqmvsa ll daeppilyse ydptrpfsea smmglltnla drelvhminw
361 akrvpgefvd ltlhdqvhll e cawleilmig lvwrsmehpv kllfapnlll drnqgkcveg
421 mveifdml la tssrfrmmnl qgeefvclks iillnsgvyt flsstlksle ekdhihrvld
481 kitdtlihl m akagltlqqq hqrlaqllli lshirhmsnk gmehlysmkc knvvpilydll
541 lemldahrlh aptsrsgasv eetdqshlat agstssshslq kyyitgeaeg fpatv
```

FIGURE 3

Haplotype analysis of Estrogen receptor alpha.

Liverpool samples are from 48 patients, and each patient had a tumor and blood sample typed. Coriell samples were controls, but they were not matched controls. Rather they included a mix of Europeans, Chinese, Indo-Pakistani, and African Americans.

TITLE: ESR1 data from Coriell controls

#1-4
CGCAGCACTCTCGCATNNNTGAACACAGTAACGTCGCTTCGTTACCGACCA
#2-12
CGTAGCACTCNCGCATTGCTGAGCACAGTAACGTCGCTTCGTTGNCGACCA
#3
AGTAGCACTCNCGCATTGCTGAGCACAGTAACGTCGCTTCGTTGNCGACCA
#4-4
CGTAGCACTCCCGCATTGCTGAGCACAGTAACGCCGCTTCGTTGCCGACCA
#5-3
CGTAGCACTCCCGCATTGCTGAGCACAGTAACGCCGCTTCGTTGCCGAGCA
#6-2
CGTAGCACTCCCGCATTGCTGAGCACAGTAACGTCGATTGATGANGACCA
#7
CGTAGCACTCCCGCATTGCTGAGCACAATAACGTCGATTGATGANGACCA
#8-3
CGTAGCACGCNCGCATTGCTGAGCACAGTAACGTCGCTTCGTTGNCGANCA
#9
CGTAGGACGCTCGCATCCNNTGAGCACAGTAACGCCGCTTCGTTNNNNNNNN
#10-4
CGCAGCACTCNCGCATCCNNTGAGCACAGTAACGTCGCTTCGTTACCGACCA
#11
CGTAGCACTCNCGCATTGCTGAGCACAGTAACGTCGCTTCGTTGCCGACCA
#12-2
CGTAGCANTCNCGCATCCGCTTAACGCAGTAACGCCGCTTCGTTGNNGAGCA
#13
CGCAGCACGCCCGCATTGCTGAACACAGTAACGCCGATTGATGACGAGCA
#14
CGTAGCACTCCCGCATTGCTGAGCACAGTAACGCCGCTTCGTTGNCGAGCA
#15
CGTAGCACTCCNNCATTGCTGAGCACAGTAACGTCGAGTCGATGCCGAGCG
#16
CGTAGCANNCCGCATTGCTGAGCACAATAACGCCGATTGATGANGACCA
#17
CGTAGGACTCCCGCATTGCTGAGCACAGTAACGTCGATTGATGANGAGCA
#18
CGTAGCACTCCCGCATCCNNTGAGCACAATAACGCCGATTGATGANGANN
#19-8
CGTAGCACTCNCGCATNNNNNNNNNNCAATAACGCCGCTTCGTTGCNNNNNN
#20-6
CGCAGCACGCNCGCATNNNNNNNNNNCAGTAACGCCGCTTCGTTGCNNNNNN
#21
CGTAGCACTCNCGCATCCNNTAGCGCAATAACGCCGCTTCGTTGCNNGCCA
#22
CGCAGCACTCCCGCATTGCTTGGCGNNGNNNGGCCGCTTCGTTGCCGACCA
#23
CGCAGCACGCCCGCATCCNNTGAACATAATAACGCCGCTTCGTTGCCGAGCA
#24
CGCAGCACGCCCGTATTGCTGAGCACAATAACGCCGCTTCGTTGNCGAGCA
#25
CGCAGCANNCCGCATCCNNTGAACACAGTAACGCCGCTTCGTTGCCGAGCA
#26
CGCAGCACGCTCGCATCCNNTGAGCACAGTAACGTCGCTTCGATGANGANN
#27
CGCAGCACTCCNNCATTGCTTAACGCAGTACCGTTGCTTNGTTNCGAGCN

#28
 CGCACCCTCCCGCATTGCTGACGAGTACCGTCAATTGTTGCCGAGCA
 #29
 CGCACCACGCCCCGCATCCGCTGAACACAGTAACGTCGCTTCGTTNNNNNNNN
 #30
 CGTAGCACTCTCGCATCTGCTNAGCGCAGTAACGTCGCTTCGTTGCCGACCA
 #31
 CGCAGCACTCCCGCATNCNNTGAGCACAGTAACGCCGCTTCGTTGCCGAGCA
 #32
 CGCAGCACTCCCGCATTGCTGAGCACAATAACGCCGCTTCGTTGCCGACCA
 #33
 CGCACCANNCCGCATCCGCTGAGCANNNNCGTCGCTTCGTTGCCGAGCA
 #34-2
 CGCAGCACTCTCGCATCCGCTGAGCACAGTAACGCCGCTTCGTTGCCGAGCA
 #35
 CGTAGCACTCCCGCATCCNNTTGGCGCAGTAACGTCGATTGACGACGAGCA
 #36-3
 CGTAGCACTCCCGCATTGCTGAACACAGTAACGCCGCTTCGTTGNCGACCA
 #37
 CGCAGCACGCCCCGCATTGCTGAACACAGTAACGCCGCTTCGTTGCCGACCA
 #38
 CGCAGCACGCCCCGCATTGCTGAACACAATAACGCCGCTTCGTTGCNNNNNN
 #39
 CGCAGGACGCCCCGCATTGCTGAGCACAGTAACGCCGCTTCGTTGCNAAGCA
 #40
 CGCAGCACTCCCGCATTGCTGAACACAATAACGTCGCTTCGTTACCGAGCA
 #41
 CGCAGCACTCNCGCATTGCTGAACACAGTAACGTCGCTTCGTTGCNGAGCA
 #42
 CGCAGCACTCCCGCATTGCTTGGCGCAATAACGTCGCTTCGTTGCCGACCA
 #43
 NNNNNGACTCCTGCATTGCTTGGCGNNGNNCGTTGCTTCGTTNNCGAGCA
 #44
 CGTAGCACTCNCGCATTGCTTAGCGCAGTAACGTCGCTTCGTTGCCGGCTA
 #45
 CGCAGCACTCCCTCATTGCTGAGCACAGTAACGCCGCTTCGTTGCCGACCA
 #46
 CGCAGCACTCTCGCATTCGCTGAACACAGTAACGTCGCTTCGTTGCCGAGCA
 #47
 CGTAGCACTCCCGCATTGCTGAGCACAGTAACGCCGCTTCGTTGCCGAGCA
 #48
 CGCAGCACTCCCGCATTGCTGAGCACNGTAACGTCGATTGATGACGACCA
 #49
 CGCAGCACGCCCCGCATTTGGTGAGCACNGTAACGTCGCTTCGTTACCGACCA
 #50
 CGCAGCACTCCCGCATCCNNTGAGCANNGTAAACGTCGCTTCGTTGCCGACCA
 #51
 CGCAGCACTCCCGCATCCNNTGAGCANNGTAAACGCCGCTTCGTTGCCGAGCA
 #52
 CGCAGGACGCCNNCATTGCTGAGCACAGTAACGCCGCTTCGTTGCCGACCA
 #53
 CGCAGGACGCCNNCATTGCTGAGCACAATAACGTCGCTTCGTTGCCGAGCA

TITLE: ESR1LVR data - tumors in Liverpool

#1-6
CGCAGCACTCTCGCATCCGCTGAACATGGTAACGCCGCTTCGTTGC

#2-7
CGCAGCACTCTCGCATCCGCTGAACACGGTAACGTCGCTTCGTTGC

#3-31
CGTAGCACTCCCGCATCCGCTGAGCACGGTAACGTCGCTTCGTNNN

#4-7
CGCAGCACTCTCGCATCCGCTGAACACGGTAACGTCGCTTCGTTAC

#5-2
CGCAGCACTCTNNCATTTCGGTGAGCACGGTAACGTCGCTTCGTTGC

#6
CGCAGCACTCTNNCATTTCGGTGAGGACGGTAACGTCGCTTCGTTGC

#7-2
CGCAGCACTCTCGCATTTCGCTGAACACGGTAACGTCGATTTCGTTGC

#8
CGCAGCACTCTCGCATTTCGCTGAACACGGTAACGTCGATTTCGTTAC

#9-5
NGTAGCACTCTCGCATCCGCTGAACANNGNAACNNNNNNNNNNNNNN

#10-2
NNCAGCACTCCCGCATTTCGGTGAGCACGATAACGCCGCTTCGTTGC

#11
NNTANCACTCTNNCATCCGCTGAGCANNATAACGTCGCTTCGTTNN

#12-5
CGTAGCACTCTCGCATCCGCTGAGCANNGTAACGNCGCTNNNNNNNN

#13
CGCAGCACTCCCGCATTTCGCTGAGCACGACAAGGCCGCTTCGTTGC

#14-3
CGTAGCACTCTCGCATCCGCTGAGCACGATAACGCCGCTTCGTTGC

#15
CGCAGCACTCCNNCATTTCGCTGAGCACGACAAGGCCGCTTCGTTGC

#16
CGTAGCACTCCCGCATCCGCTGAACACGGTAACGCCGCTTCGTTAC

#17
CGCAGCACGCTCGCACTCGCTGAACACGGTAACGCCGCTCCGATGC

#18
CGCAGCACTCTNNCATTTCAGTTGGCGCGGTAACGCCGATTTCGATGA

#19
CGCACCACGCCCCGATTTCGCTGAAGACGGTAACGCCGCTTCGTTAC

#20-7
CGCAGCACTCCCGCATCCGCTGAGCACGGTAACGTCGCTTCGTTAC

#21
CGTAGCACTCCCGCATTTCGCTTGGCGCGANNNCGCCGCTTCGTTGC

#22
NNNANCACTCTCGCATCCGCGAGCACGGTAACGTCGATNNGATAA

#23
CGTAGCACTCTCGCATCCGCTGAGCACGATAACGCCGCTCCGTTGC

#24-2
CGTAGCACTCCNNCATTTCGCTGAACACGATAACGNCGCTTCGTTAN

#25
CGCAGCACTCTCGCATCCGCTGAGCACGATAACGCCNCTCCGATGC

#26
CGCAGCACTCCCGCATTTCGGTGAGCACGGTAACGTCGATTTCGTTAC

#27
CGCAGCACTCCCGCATCCGCTGAACATGGTGACGCCGCTTCGTTAN

#28-5
CGCAGCACTCCCGCATTTCGCTGAACACGGTAACGTCGCTTCGTTNN

#29
CGCAGCACTCTCGCATTTCGGTGAAACACGGTAACGTCGCTTCGTTAC

#30
CGCAGCACTCTCGCATTTCAGTTGGCGCGGTAACGCCNCNTCGATGA

#31
NNNNNCAGCCCCGATTTCGCTGAAGACGGTAACGCCGCTTCGTTAC

FIGURE 4a, sheet 3 of 6

#32
 CGCAGCACTCCCGCATTTCGGTTGGCGCGGTAACGTCGCTCCGATAC
 #33
 CGTAGCACTCCCGCATTTCGCTTGGCGCGATAACGCCGCTTCGTTGC
 #34
 NNNAGCACTCTNNCATTTCGCTGAGCANNNGNNNNNNCGATNNGTNNN
 #35
 CGTAGCACTCTCGCATCCGCTGAGCACGATAACGCCGCTCCGATGC
 #36
 CGTAGCACTCCCGCATTTCGCTGAACACGATAACGCCGCTTCGTTAC
 #37
 CGCAGCACTCTCGCATCCGGTGAGCACGATAACGTCGCTCCGATGC
 #38
 CGCAGCACTCCCGCATTTCGGTGAGCACGGTAACGTCGATTCGATAA
 #39
 CGCAGCACTCCCGCATCCGCTGAACATGGTGACGCCGCTTCGTTGC
 #40
 CGTACCACGCCCCGCATCCGCTGAGCACGATAACGCCNCNCGTNNN
 #41
 CGCAGCACTCCCGCATTTCGCTGAACACGGTAACGTCGCTTCGTTAC
 #42
 CGTAGCACGCTCGCATCCGCTGAGCACGATAACGCCGCTTCGTTGC
 #43
 CGTAGCACTCTCGCATCCGCTGAGCACGGTAACGTCGCTTCGTTAC
 #44
 CGTAGCACTCCCGCATTTCGGTGAGGACGATAACGCCGCTTCGTTGC
 #45-2
 CGTAGCACTCCCGCATTTCGCTGAACACGGTAACGTCGCTTCGATAA
 #46-5
 CGCAGCACTCCCGCATCCGCTGAACACGGTAACGCCGCTTCGTTGN
 #47-3
 CGTAGCACTCCCGCATCCGCTGAACACGATAACGCCGCTTCGTTGC
 #48
 CGCACCACGCCCCGCATTTCGCTGAGCACGGTAACGCCGCTTCGTTGC
 #49
 CGTAGCACTCCCGCATCCGCTGAGCACGATAACGCCGCTTCGTTGC
 #50-3
 NNNNNCACTCCCGCATTTCGCTGAGCANNGTAAACGCCGCTNNGTNNN
 #51
 CGCAGCACTCCNNCATTTCGGTGAGCACGGTAAGGCCGCTTCGTTGC
 #52
 CGCACCACGCCCCGCATCCGCTGAGCACGGTAACACCGCTNNGTTGN
 #53-5
 CGCACCACGCCCCGCATCCGCTGAGCANNGTAAACGCCGCTTCGTTNN
 #54
 CGCAGCACTCCNNCATTTCGGTGAGCACGGTAAGGCCGCTTCGTTNN
 #55
 CGTAGCACTCCCGCATTTCGCTGAACACGATAACGCCGCTNNGTTGC
 #56
 CGCACCACGCCCCGCATCCGCTGAGCACGATAACGCCGCTTCGTTGC
 #57-2
 CGCACCACGCTNNCATCCNNTGAGCACGGTAACGTCGCTTCGTTGC
 #58
 CGCACCACGCTCGCATCCGCTGAGCACGGTAACGTCGCTTCGTTGC
 #59
 CGCAGCACTCTCTCATTCGCTGAGCANNATAACACCGCTTCGTTGC
 #60
 CGCAGCACGGTCGCATTTCGCTGAGCACAATAACGCCGCTTCGTTGC
 #61-3
 NGTAGCACTCCNNCATTTCGGTTGGCGNNGTAACGCCGCTTCGTTNN
 #62
 CGCAGCACGGTNNCATTTCGCTGAGCACGATAACGCCGCNTCGTTGC

FIGURE 4a, sheet 4 of 6

#63
 CGTAGCACTCCNNCATTGCGTTGGCGCGGNNCGCCGCTTCGTTAC
 #64
 CGTAGCACTCTNNCATTGCTGGGCGCGGTAACGTCNCTNNGTTNN
 #65
 CGTAGCACTCCCGCATTTGCTGAGCACGGTAACGCNGCTCCGATGC
 #66
 CGCACCAGGCTCGCATTGCTTAGCGCGGTAACGCCGCTTCGTTGC
 #67
 CGTAGCACTCCCGCATTTGGTGAGCACGGTAACGCCGCTCCGATGC
 #68
 CGCACCAGGCTCGCATTGCTTAGCGCGGTAACGCCGCTTCGTTAC
 #69
 CGTAGCACTCCCGCATTTGCTGAGCACGATAACGCCGCTTCGTTGC
 #70
 CGTAGCACGCCNNCATTGCTGAGCACGGTAACGCCGCTTCGTTGC
 #71
 CGTAGCACTCCCGCATCTGGTGAGCACGGTAACGCCGCTTCGTTGC
 #72
 CGTAGCACTCCCGCATTTGCTGAGCACGATAACGCCGCTTCGTTGN
 #73-2
 CGCGCCAGGCTCGCATCCGCTTAACGCGGTAACGTCGCTTCGTTAC
 #74
 CGCACCACGCCNNCATCCGCTGAGCACGATAACGTCGCTTCATTGN
 #75
 CGCACCACGCCCCGCATCCGCTGAGCACGATAACGTCGCTTCATTGC
 #76-2
 CGCAGCACGCCCCGCATCCGCTGAGCACGGTAACGTCGCTTCATTGC
 #77-2
 CGCAGCACTCCCGCATTTGCTGGCGCGGTAACGTCGCTTTGTTAC
 #78
 CGCAGCACGCTCGCATCCGCTGAGCACGGTAACGTCNCTTCGTTGC
 #79
 CGCAGCACTCTCGCATCCGCTGAGCACGGTAACGTCGCTNNGTTGC
 #80
 CGCAGCACTCTCGCATCCGCTGAGCACGGTAAGGCCGCTNNGTTAC
 #81
 CGCAGCACTCTCGCATCCGCTGAGCACGGTAACGTCGCTTCGTTGC
 #82
 CGCAGCACTCTCGCATCCGCTGAGCACGGTAAGGCCGCTTCGTTAC
 #83
 CGTAGCACTCCCGCATTTGCTGAGCACGGTAACGTCGCTTCGTTGC
 #84
 CGTAGCACTCTCGCATTTGCTGAACACGGTAACGTCGCTCCGTTAC
 #85
 CGTAGCACTCCCGCATCCGCTGGGCACGGTAACGTCGCTTCGTTGC
 #86
 CGTAGCACTCCCGCATTTGCTGGCGCGGTAACGTCGCTTCGTTAC
 #87
 CGTAGCACTCCNNCATCCGCTGGGCACGGTAACGTCGCTTCGTTGC
 #88
 CGCAGCACTCCNNCATTGCTGGCGCGGTAACGTCGCTTCGTTAC
 #89
 CGCAGCACTCCCGCATTTGCTGAGCACGGTAACGCCGCTTCGTTGC
 #90
 CTTAGCACTCCCGCATTTGCTGAGCACGGTAACGCCGCTTCGTTGC
 #91
 CGCAGCACTCCCGCATTTGCTGAGCACGGTAACGCCGCTTCGTTGC
 #92
 CTTAGCACTCCCGCATTTGCTGAGCACGGTAACGCCGCTTCGTTGC
 #93
 CGTAGCACTCCCGCATTTGCTGGCGCGGTAACGCCGCTTCGTTGC

FIGURE 4a, sheet 5 of 6

#94
CGCAGGGCGCCCGCATTCGCTTAGCGCGGTAAAGCCGCTTCGTTGC
#95
CGTAGCACTCCNNCATTTCGCTTGGCGCGGTAAAGCCGCTTCGTTGN
#96
CGCAGGGCGCCNNCATTTCGCTTAGCGCGGTAAAGCCGCTTCGTTGN
#97
CGTAGCACTCCNNCATTTCGGTGAGCACGGTAAGCCGCTTCGTTGC
#98
CGTAGCACTCTNNCATTTCGGTGAGCACGGTAAGCCGCTTCGTTGC
#99
CGTAGCACTCCCGCATTCGGTGAGCACGGTAAGCCGCTTCGTTGC
#100
CGTAGCACTCTCTCATTTCGGTGAGCACGGTAAGCCGCTTCGTTGC
#101
CGTAGCACTCCNNCATTTCGGTTGGCGCGGTAAAGTCGCTTCGTTAC
#102
CGCAGCACGCCNNCATCCGCTTGGCACGGTAAGTCGCTTCGTTAC

The non-singleton haplotype data were fitted to a neighbor-joining tree (L is Liverpool sample):

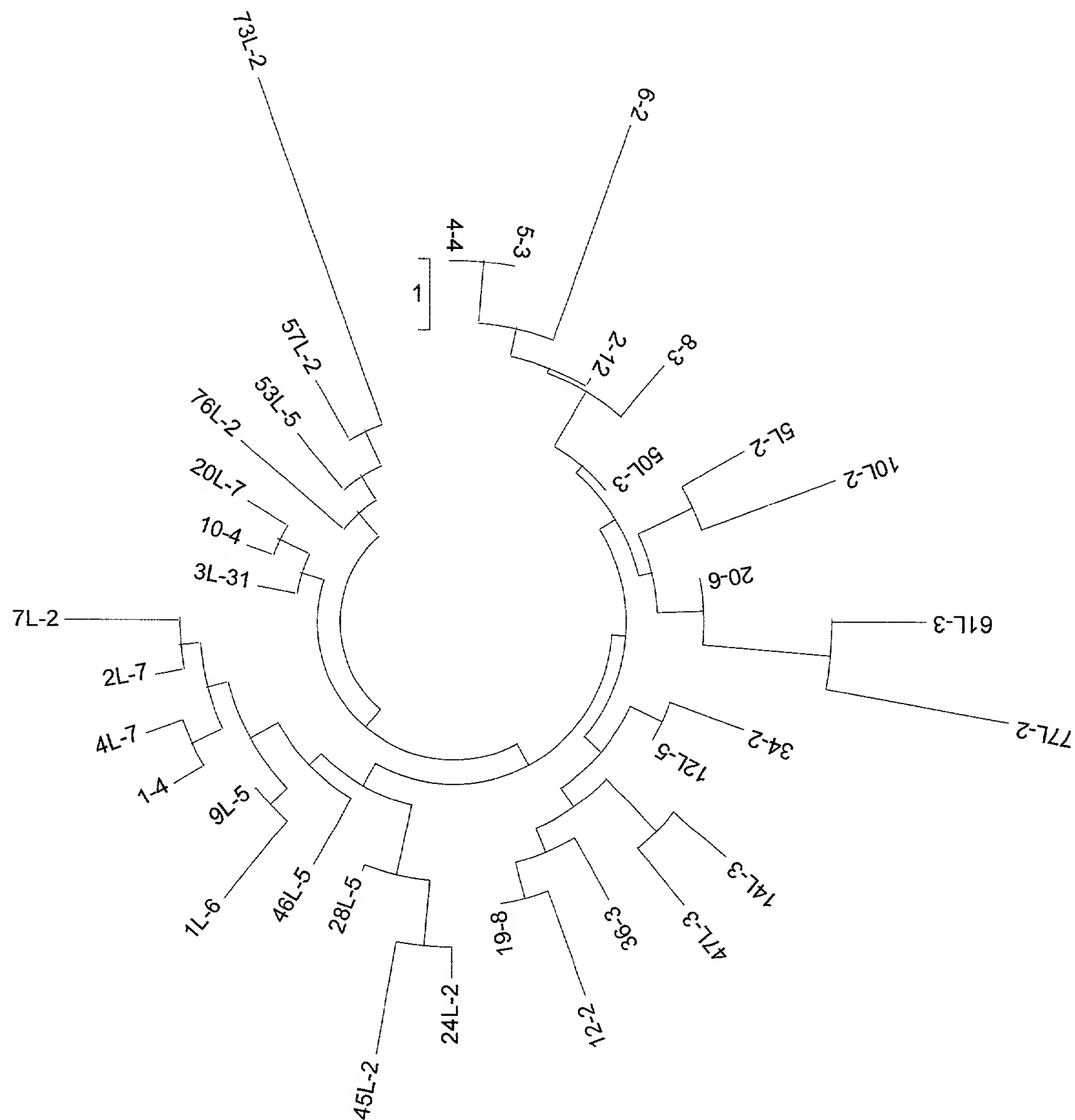
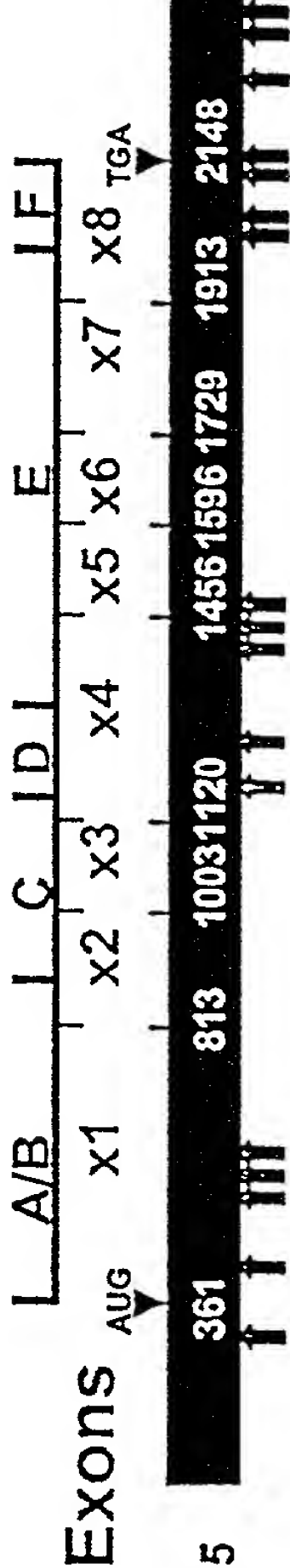
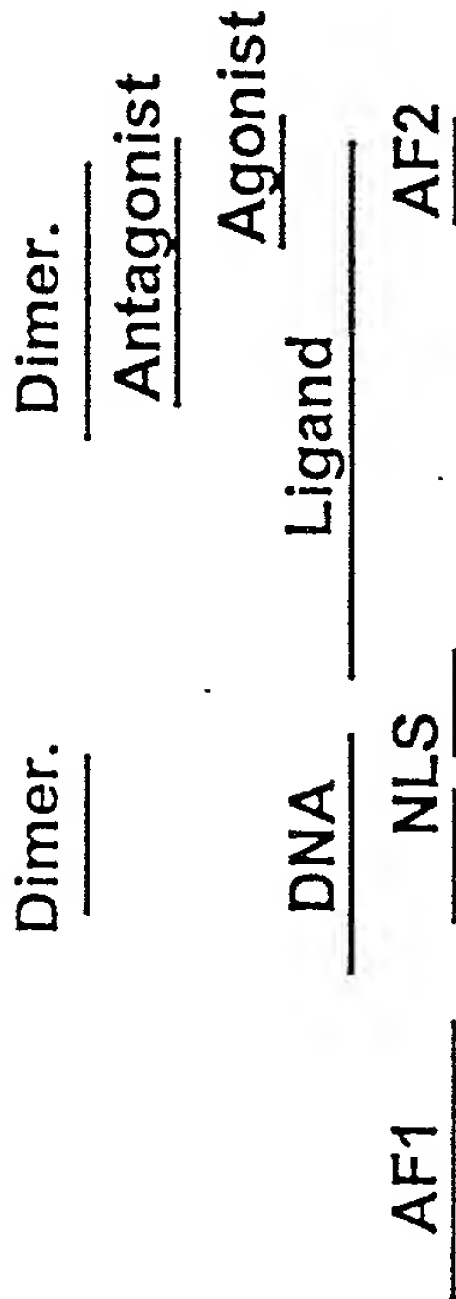


FIGURE 4b

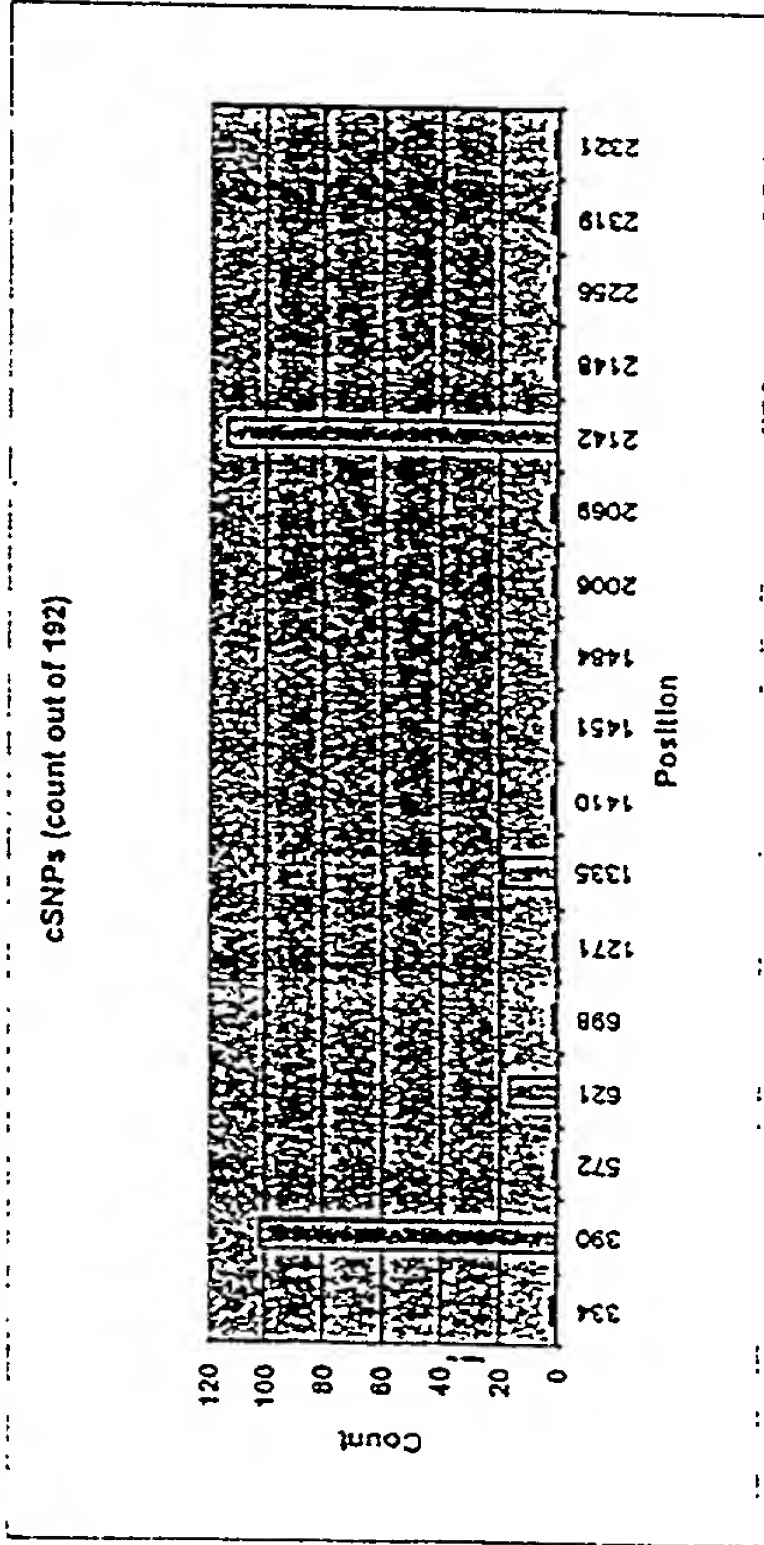
cSNP candidates

Functional
Domains



X03635

Candidate
cSNPs



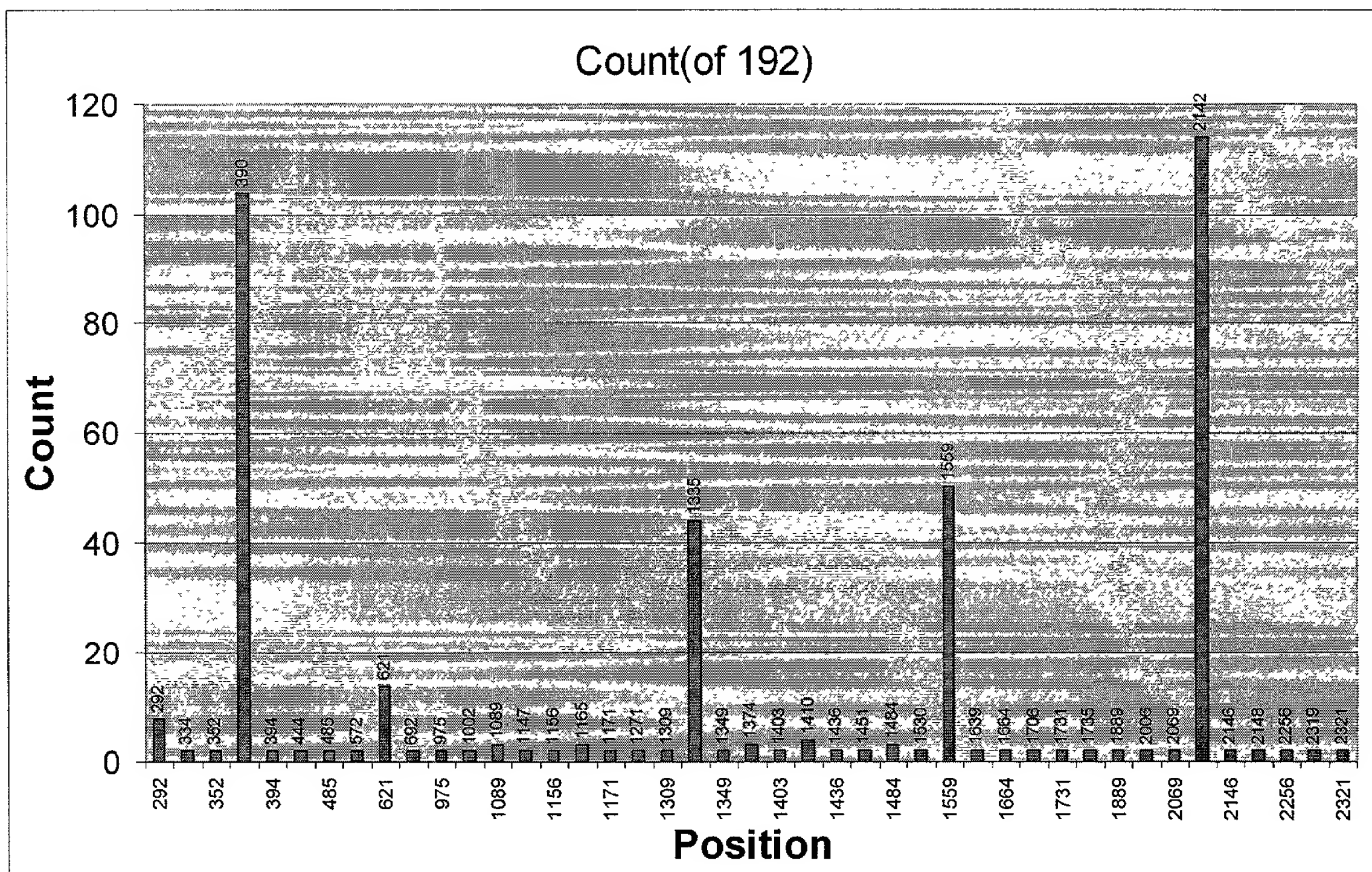
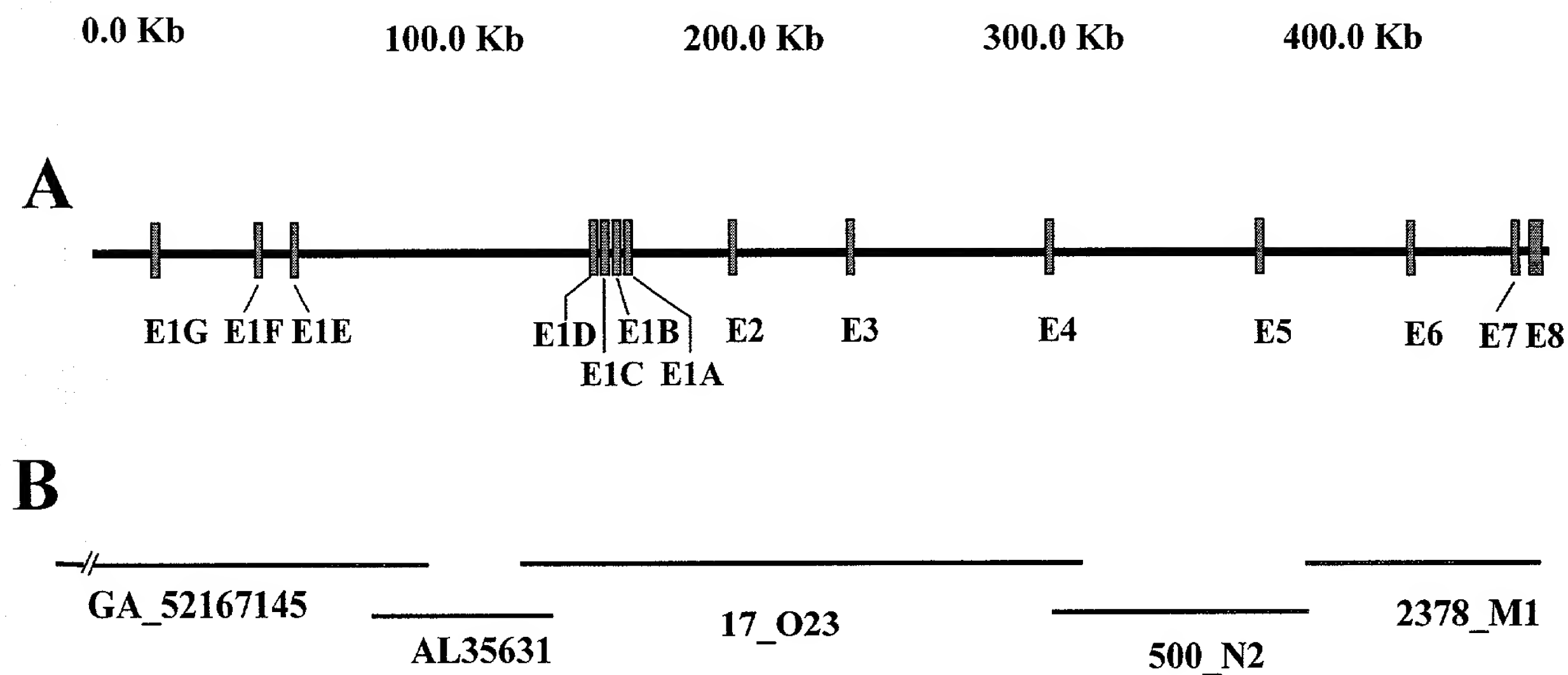


FIGURE 6

Estrogen Receptor Alpha



(A) Complete structure of the human estrogen receptor alpha (ER α). Exons are represented by filled boxes and introns by horizontal lines. (B) Order and names of contigs used to complete the genomic sequence. GA numbers represent Celera contig numbers. Research genetics BAC clones are represented by standard plate and well numbering.

FIGURE 7

		1A 170035		1A 170068		1A 170256		1A 170368		1A 170487		1B 169812		1B 169823		1C 167950	
		C	A	G	T	C	T	A	G	G	C	C	G	A	G	C	G
total	total	0.99	0.01	1	0	0.46	0.54	1	0	0.96	0.04	0.94	0.06	1	0	1	0
N. Eur	N. Eur	1	0	1	0	0.55	0.45	1	0	0.9	0.1	1	0	1	0	1	0
a01	GM03715	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
a02	GM06816	2	0	2	0	1	1	2	0	1	1	2	0	2	0	n/a	n/a
a03	GM10923	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
a04	GM10924	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
a05	GM11814	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
a06	GM12136	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
a07	GM12137	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0
a08	GM12547	2	0	2	0	2	0	2	0	1	1	2	0	2	0	2	0
a09	GM12548	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0
a10	GM14667	2	0	2	0	0	2	2	0	2	0	2	0	2	0	n/a	n/a
Chi	Chi	0.95	0.05	1	0	0.5	0.5	1	0	0.95	0.05	1	0	1	0	1	0
b01	GM00576	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
b02	GM03433	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
b03	GM06090	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
b04	GM07426	2	0	2	0	2	0	2	0	1	1	2	0	2	0	2	0
b05	GM09820	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0
b06	GM11321	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0
b07	GM11322	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
b08	GM11323	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0
b09	GM11324	1	1	2	0	0	2	2	0	2	0	2	0	2	0	2	0
b10	GM11325	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
In. Pak	In. Pak	1	0	1	0	0.5	0.5	1	0	1	0	1	0	1	0	1	0
c01	GM01032	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
c02	GM01225	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
c03	GM04300	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0
c04	GM07895	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
c05	GM10176	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0
c06	GM10666	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
c07	GM10667	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
c08	GM11213	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
c09	GM11860	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
c10	GM14611	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
Af. Amer	Af. Amer	1	0	1	0	0.5	0.5	1	0	0.94	0.06	0.9	0.1	1	0	1	0
d01	GM14660	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	1	1	2	0	2	0
d02	GM14661	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
d03	GM14663	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0
d04	GM14665	2	0	2	0	1	1	2	0	2	0	1	1	2	0	2	0
d05	GM14672	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
d06	GM14682	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
d07	GM14683	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
d08	GM14696	2	0	2	0	1	1	2	0	1	1	2	0	2	0	2	0
d09	GM14698	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
d10	GM14700	2	0	2	0	1	1	2	0	2	0	2	0	2	0	n/a	n/a
SW Amer Ind	SW Amer. Ind	1	0	1	0	0.25	0.75	1	0	1	0	0.8	0.2	1	0	1	0
e01	GM12060	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0
e02	GM12061	2	0	2	0	1	1	2	0	2	0	1	1	2	0	2	0
e03	GM12062	2	0	2	0	0	2	2	0	2	0	2	0	2	0	n/a	n/a
e04	GM12063	2	0	2	0	0	2	2	0	2	0	1	1	2	0	2	0
e05	GM12064	2	0	2	0	2	0	2	0	2	0	0	2	2	0	2	0
e06	GM14308	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0
e07	GM14309	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
e08	GM12310	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0
e09	GM14311	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0
e10	GM14313	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0

FIGURE 8a(1), sheet 1 of 6

	1D 167989		1C 168054		1E 64331		1F 52901		1F 52877		1G 18783		1G 18937		1G 19034		Intron 3 243187	
	T	G	C	G	T	C	C	T	G	T	C	T	A	C	T	C	C	T
total	0.76	0.24	1	0	0.2	0.8	0.99	0.01	0.99	0.01	0.99	0.01	0.99	0.01	1	0	0.33	0.674
N. Eur	0.94	0.06	1	0	0.45	0.55	1	0	0.95	0.05	1	0	1	0	1	0	0.67	0.333
a01	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	n/a	n/a
a02	n/a	n/a	n/a	n/a	0	2	2	0	2	0	2	0	2	0	2	0	2	0
a03	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
a04	2	0	2	0	1	1	2	0	1	1	2	0	2	0	2	0	1	1
a05	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0	2	0
a06	2	0	2	0	n/a	1	2	0	2	0	2	0	2	0	2	0	1	1
a07	2	0	2	0	n/a	n/a	2	0	2	0	2	0	2	0	2	0	0	2
a08	1	1	2	0	n/a	n/a	2	0	2	0	2	0	2	0	2	0	2	0
a09	2	0	2	0	n/a	n/a	2	0	2	0	2	0	2	0	2	0	1	1
a10	2	0	2	0	n/a	n/a	2	0	2	0	2	0	2	0	2	0	1	1
Chi	0.75	0.25	1	0	0	1	1	0	1	0	1	0	0.95	0.05	1	0	0.3	0.7
b01	1	1	2	0	0	2	2	0	2	0	2	0	1	1	2	0	0	2
b02	1	1	2	0	0	2	2	0	2	0	2	0	2	0	2	0	0	2
b03	1	1	2	0	0	2	2	0	2	0	2	0	2	0	2	0	0	2
b04	1	1	2	0	0	2	2	0	2	0	2	0	2	0	2	0	2	0
b05	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0	2	0
b06	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0	2	0
b07	1	1	2	0	n/a	n/a	2	0	2	0	2	0	2	0	2	0	0	2
b08	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0	0	2
b09	2	0	2	0	n/a	n/a	2	0	2	0	2	0	2	0	2	0	0	2
b10	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0	0	2
In. Pak	0.75	0.25	1	0	0.28	0.72	1	0	1	0	1	0	1	0	1	0	0.25	0.75
c01	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0	0	2
c02	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0	1	1
c03	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0	0	2
c04	1	1	2	0	1	1	2	0	2	0	2	0	2	0	2	0	0	2
c05	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0	0	2
c06	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
c07	1	1	2	0	n/a	n/a	2	0	2	0	2	0	2	0	2	0	1	1
c08	1	1	2	0	0	2	2	0	2	0	2	0	2	0	2	0	1	1
c09	1	1	2	0	0	2	2	0	2	0	2	0	2	0	2	0	0	2
c10	1	1	2	0	0	2	2	0	2	0	2	0	2	0	2	0	0	2
Af. Amer	0.61	0.39	1	0	0.22	0.78	0.94	0.06	1	0	0.95	0.05	1	0	1	0	0.28	0.722
d01	1	1	2	0	0	2	1	1	2	0	2	0	2	0	2	0	1	1
d02	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0	n/a	n/a
d03	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0	0	2
d04	1	1	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
d05	1	1	2	0	0	2	2	0	2	0	1	1	2	0	2	0	0	2
d06	1	1	2	0	n/a	n/a	2	0	2	0	2	0	2	0	2	0	1	1
d07	1	1	2	0	0	2	n/a	n/a	n/a	n/a	2	0	2	0	2	0	0	2
d08	1	1	2	0	0	2	2	0	2	0	2	0	2	0	2	0	0	2
d09	1	1	2	0	0	2	2	0	2	0	2	0	2	0	2	0	0	2
d10	n/a	n/a	n/a	n/a	0	2	2	0	2	0	2	0	2	0	2	0	1	1
SW Amer. Ind	0.72	0.28	1	0	0.13	0.88	1	0	1	0	1	0	1	0	1	0	0.13	0.875
e01	2	0	2	0	0	2	n/a	n/a	n/a	n/a	2	0	2	0	2	0	0	2
e02	1	1	2	0	1	1	2	0	2	0	2	0	2	0	2	0	0	2
e03	n/a	n/a	n/a	n/a	0	2	2	0	2	0	2	0	2	0	2	0	0	2
e04	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0	0	2
e05	0	2	2	0	0	2	n/a	n/a	n/a	n/a	2	0	2	0	2	0	0	2
e06	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0	1	1
e07	1	1	2	0	1	1	2	0	2	0	2	0	2	0	2	0	1	1
e08	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0	0	2
e09	2	0	2	0	n/a	n/a	2	0	2	0	2	0	2	0	2	0	n/a	n/a
e10	1	1	2	0	n/a	n/a	2	0	2	0	2	0	2	0	2	0	n/a	n/a

FIGURE 8a(1), sheet 2 of 6

	Exon 3 243055		Exon 4 306292		Exon 4 306382		Exon 6 423067		intron 6 423149		Intron 6 423163		Intron 6 423220		Intron 6 423232		Intron 6 423258		
	C	T	G	O	C	G	T	C	G	T	A	G	G	A	C	G	A	G	
total	0.98	0.02	1	0	0.83	0.17	0.99	0.01	0.81	0.19	0.88	0.13	0.75	0.25	1	0	0.8	0.2	
N. Eur	1	0	1	0	1	0	0.95	0.05	0.85	0.15	0.95	0.05	0.8	0.2	1	0	0.85	0.15	
a01	n/a	n/a	n/a	n/a	n/a	n/a	2	0	2	0	2	0	0	2	2	0	2	0	
a02	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	
a03	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	
a04	2	0	n/a	n/a	n/a	n/a	2	0	2	0	2	0	2	0	2	0	2	0	
a05	2	0	n/a	n/a	n/a	n/a	2	0	2	0	2	0	2	0	2	0	2	0	
a06	2	0	n/a	n/a	n/a	n/a	2	0	2	0	2	0	2	0	2	0	2	0	
a07	2	0	n/a	n/a	n/a	n/a	1	1	1	1	1	1	1	1	2	0	1	1	
a08	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	
a09	2	0	n/a	n/a	n/a	n/a	2	0	1	1	2	0	2	0	2	0	1	1	
a10	2	0	2	0	2	0	2	0	1	1	2	0	1	1	2	0	1	1	
Chi	1	0	1	0	0.75	0.25	1	0	0.65	0.35	0.7	0.3	0.75	0.25	1	0	0.65	0.35	
b01	2	0	2	0	0	2	2	0	0	2	0	2	0	2	0	2	0	0	2
b02	2	0	n/a	n/a	n/a	n/a	2	0	2	0	2	0	1	1	2	0	2	0	
b03	2	0	2	0	1	1	2	0	2	0	2	0	1	1	2	0	2	0	
b04	2	0	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0	
b05	2	0	n/a	n/a	n/a	n/a	2	0	0	2	0	2	2	0	2	0	0	2	
b06	2	0	n/a	n/a	2	0	2	0	0	2	1	1	2	0	2	0	0	2	
b07	2	0	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0	
b08	2	0	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0	
b09	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	
b10	2	0	2	0	1	1	2	0	1	1	1	1	2	0	2	0	1	1	
In. Pak	0.9	0.1	1	0	0.75	0.25	1	0	0.89	0.11	0.9	0.1	0.6	0.4	1	0	0.85	0.15	
c01	2	0	2	0	2	0	2	0	2	0	2	0	0	2	2	0	2	0	
c02	2	0	2	0	2	0	2	0	1	1	2	0	1	1	2	0	1	1	
c03	2	0	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0	
c04	2	0	n/a	n/a	2	0	2	0	2	0	2	0	0	2	2	0	2	0	
c05	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0	2	0	
c06	1	1	2	0	2	0	2	0	n/a	1	2	0	2	0	2	0	1	1	
c07	2	0	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0	
c08	2	0	n/a	n/a	n/a	n/a	2	0	2	0	2	0	1	1	2	0	2	0	
c09	1	1	2	0	0	2	2	0	2	0	2	0	2	0	2	0	2	0	
c10	2	0	n/a	n/a	n/a	n/a	2	0	1	n/a	0	2	2	0	2	0	1	1	
Af. Amer	1	0	1	0	1	0	1	0	0.7	0.3	0.85	0.15	0.65	0.35	1	0	0.7	0.3	
d01	2	0	2	0	2	0	2	0	0	2	0	2	2	0	2	0	0	2	
d02	2	0	n/a	n/a	n/a	n/a	2	0	2	0	2	0	2	0	2	0	2	0	
d03	2	0	n/a	n/a	n/a	n/a	2	0	2	0	2	0	1	1	2	0	2	0	
d04	2	0	n/a	n/a	n/a	n/a	2	0	2	0	2	0	1	1	2	0	2	0	
d05	2	0	n/a	n/a	n/a	n/a	2	0	2	0	2	0	2	0	2	0	2	0	
d06	2	0	n/a	n/a	2	0	2	0	0	2	2	0	2	0	2	0	0	2	
d07	2	0	n/a	n/a	n/a	n/a	2	0	1	1	2	0	1	1	2	0	1	1	
d08	2	0	n/a	n/a	2	0	2	0	1	1	1	1	1	1	2	0	1	1	
d09	2	0	n/a	n/a	n/a	n/a	2	0	2	0	2	0	0	2	2	0	2	0	
d10	2	0	n/a	n/a	n/a	n/a	2	0	2	0	2	0	1	1	2	0	2	0	
SW Amer. Ind	1	0	1	0	0.85	0.15	1	0	1	0	1	0	1	0	1	0	1	0	
e01	2	0	1	n/a	2	0	2	0	2	0	2	0	2	0	2	0	2	0	
e02	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	
e03	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	
e04	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	
e05	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	
e06	2	0	n/a	n/a	n/a	n/a	2	0	2	0	2	0	2	0	2	0	2	0	
e07	2	0	n/a	n/a	n/a	n/a	2	0	2	0	2	0	2	0	2	0	2	0	
e08	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0	2	0	
e09	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
e10	n/a	n/a	1	n/a	1	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	

FIGURE 8a(1), sheet 3 of 6

	8 208		8 220		Exon 8 460929		Exon 8 461199		Exon 8 461231		Exon 8 461337		Exon 8 461520		Exon 8 461843		Exon 8 461968	
	C	T	A	G	G	A	T	C	A	G	A	C	C	G	G	A	T	C
total	0.99	0.01	1	0	0.79	0.21	1	0	1	0	0.97	0.03	1	0	1	0	0.53	0.47
N. Eur	1	0	1	0	0.8	0.2	1	0	1	0	1	0	1	0	1	0	0.55	0.45
a01	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
a02	n/a	n/a	n/a	n/a	1	1	n/a	n/a	n/a	n/a	n/a	n/a	2	0	2	0	1	1
a03	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0	0	2
a04	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	0	2
a05	n/a	n/a	n/a	n/a	2	0	2	0	2	0	2	0	2	0	2	0	1	1
a06	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
a07	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
a08	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0	2	0
a09	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0	0	2
a10	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	1	1
Chi	1	0	1	0	0.85	0.15	1	0	1	0	1	0	1	0	1	0	0.6	0.4
b01	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
b02	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0	1	1
b03	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	1	1
b04	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
b05	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0	1	1
b06	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
b07	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	1	1
b08	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0	0	2
b09	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
b10	n/a	n/a	n/a	n/a	2	0	n/a	n/a	n/a	n/a	n/a	n/a	2	0	2	0	0	2
In. Pak	0.95	0.05	1	0	0.8	0.2	1	0	1	0	1	0	1	0	1	0	0.4	0.6
c01	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	1	1
c02	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0	0	2
c03	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	0	2
c04	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0	0	2
c05	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	0	2
c06	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
c07	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
c08	1	1	2	0	1	1	2	0	2	0	2	0	2	0	2	0	0	2
c09	2	0	n/a	n/a	2	0	2	0	2	0	2	0	2	0	2	0	2	0
c10	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0	1	1
Af. Amer	1	0	1	0	0.8	0.2	1	0	1	0	0.83	0.17	1	0	1	0	0.45	0.55
d01	n/a	n/a	n/a	n/a	2	0	n/a	n/a	n/a	n/a	n/a	n/a	2	0	2	0	1	1
d02	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	1	1
d03	2	0	2	0	1	1	2	0	2	0	1	1	2	0	2	0	1	1
d04	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	1	1
d05	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0	0	2
d06	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	1	1
d07	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0	2	0
d08	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0	2	0
d09	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0	0	2
d10	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	0	2
SW Amer Ind	1	0	1	0	0.7	0.3	1	0	1	0	1	0	1	0	1	0	0.65	0.35
e01	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
e02	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0	0	2
e03	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0	1	1
e04	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
e05	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0	1	1
e06	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0	1	1
e07	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
e08	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0	2	0
e09	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0	1	1
e10	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	1	1

FIGURE 8a(1), sheet 4 of 6

	Exon 8 462125		8 462398		8 462683		8 462949		8 463958		8 463966		8 464237		8 464735		8 465074	
	C	T	G	A	C	A	T	G	T	C	C	T	G	A	T	A	T	C
total	0.98	0.02	0.99	0.01	0.89	0.11	0.98	0.02	0.98	0.02	1	0	1	0	0.87	0.13	0.99	0.01
N. Eur	1	0	1	0	1	0	1	0	0.9	0.1	1	0	1	0	0.9	0.1	1	0
a01	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
a02	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
a03	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
a04	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
a05	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
a06	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
a07	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
a08	2	0	2	0	2	0	2	0	0	2	2	0	2	0	0	2	2	0
a09	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
a10	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
Chi	1	0	1	0	0.9	0.1	1	0	1	0	1	0	1	0	0.9	0.1	0.95	0.05
b01	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
b02	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
b03	2	0	2	0	1	1	2	0	2	0	2	0	2	0	1	1	2	0
b04	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
b05	2	0	2	0	1	1	2	0	2	0	2	0	2	0	1	1	1	1
b06	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
b07	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
b08	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
b09	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
b10	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
In. Pak	1	0	1	0	0.95	0.05	1	0	1	0	1	0	1	0	0.95	0.05	1	0
c01	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
c02	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
c03	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
c04	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
c05	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
c06	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
c07	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
c08	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
c09	2	0	2	0	1	1	2	0	2	0	2	0	2	0	1	1	2	0
c10	2	0	2	0	2	0	2	0	2	0	n/a	n/a	2	0	2	0	2	0
Af. Amer	0.9	0.1	0.95	0.05	0.95	0.05	0.95	0.05	1	0	1	0	1	0	1	0	1	0
d01	1	1	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
d02	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
d03	2	0	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
d04	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
d05	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
d06	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
d07	1	1	2	0	2	0	2	0	2	0	n/a	n/a	2	0	2	0	2	0
d08	2	0	1	1	1	1	2	0	2	0	n/a	n/a	2	0	2	0	2	0
d09	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
d10	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
SW Amer. Ind	1	0	1	0	0.65	0.35	0.95	0.05	1	0	1	0	1	0	0.6	0.4	1	0
e01	2	0	2	0	1	1	1	1	2	0	2	0	2	0	1	1	2	0
e02	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
e03	2	0	2	0	1	1	2	0	2	0	2	0	2	0	1	1	2	0
e04	2	0	2	0	1	1	2	0	2	0	2	0	2	0	1	1	2	0
e05	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
e06	2	0	2	0	1	1	2	0	2	0	2	0	2	0	1	1	2	0
e07	2	0	2	0	1	1	2	0	2	0	2	0	2	0	0	2	2	0
e08	2	0	2	0	0	2	2	0	2	0	2	0	2	0	0	2	2	0
e09	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
e10	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0

FIGURE 8a(1), sheet 5 of 6

	3' Flanking Exon 8 (AL078582)															
	54404		54460		48798		48924		49005		49116		49148		49251	
	G	A	C	A	C	G	G	A	A	G	C	G	C	T	A	G
total	0.88	0.12	0.88	0.13	0.99	0.01	0.99	0.01	0.98	0.02	0.64	0.36	0.99	0.01	0.99	0.01
N. Eur	0.85	0.15	1	0	1	0	1	0	0.95	0.05	0.7	0.3	1	0	1	0
a01	0	2	2	0	2	0	2	0	2	0	2	0	2	0	2	0
a02	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0
a03	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0
a04	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0
a05	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0
a06	1	1	2	0	2	0	2	0	2	0	2	0	2	0	2	0
a07	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
a08	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0
a09	2	0	2	0	n/a	n/a	2	0	1	1	2	0	2	0	2	0
a10	2	0	n/a	n/a	n/a	n/a	2	0	2	0	1	1	2	0	2	0
Chi	0.78	0.22	0.86	0.14	1	0	1	0	1	0	0.78	0.22	1	0	1	0
b01	0	2	2	0	n/a	n/a	2	0	2	0	2	0	2	0	2	0
b02	1	1	2	0	2	0	2	0	2	0	1	1	2	0	2	0
b03	2	0	1	1	2	0	2	0	2	0	1	1	2	0	2	0
b04	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
b05	2	0	1	1	2	0	2	0	2	0	1	1	2	0	2	0
b06	1	1	2	0	2	0	2	0	2	0	2	0	2	0	2	0
b07	2	0	2	0	n/a	n/a	2	0	2	0	1	1	2	0	2	0
b08	2	0	n/a	n/a	2	0	2	0	2	0	2	0	2	0	2	0
b09	2	0	n/a	n/a	2	0	2	0	2	0	2	0	2	0	2	0
b10	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
In. Pak	0.85	0.15	0.94	0.06	1	0	1	0	1	0	0.72	0.28	1	0	1	0
c01	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0
c02	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0
c03	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0
c04	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
c05	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0
c06	1	1	2	0	2	0	2	0	2	0	2	0	2	0	2	0
c07	1	1	n/a	n/a	2	0	2	0	2	0	n/a	n/a	2	0	2	0
c08	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0
c09	1	1	1	1	2	0	2	0	2	0	2	0	2	0	2	0
c10	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
Af. Amer	0.93	0.07	1	0	0.94	0.06	1	0	0.94	0.06	0.31	0.69	0.94	0.06	1	0
d01	n/a	n/a	n/a	n/a	2	0	2	0	2	0	1	1	2	0	2	0
d02	1	1	2	0	1	1	2	0	2	0	1	1	2	0	2	0
d03	2	0	n/a	n/a	2	0	2	0	2	0	1	1	2	0	2	0
d04	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
d05	2	0	n/a	n/a	2	0	2	0	2	0	0	2	2	0	2	0
d06	2	0	2	0	2	0	2	0	1	1	2	0	1	1	2	0
d07	n/a	n/a	n/a	n/a	2	0	2	0	2	0	0	2	2	0	n/a	n/a
d08	2	0	2	0	2	0	2	0	2	0	0	2	2	0	2	0
d09	2	0	2	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
d10	2	0	2	0	2	0	2	0	2	0	0	2	2	0	2	0
SW Amer Ind	1	0	0.65	0.35	1	0	0.94	0.06	1	0	0.67	0.33	1	0	0.92	0.08
e01	2	0	2	0	2	0	2	0	2	0	1	1	2	0	1	1
e02	2	0	2	0	n/a	n/a	1	1	2	0	1	1	2	0	2	0
e03	2	0	1	1	n/a	n/a	2	0	2	0	2	0	2	0	2	0
e04	2	0	1	1	n/a	n/a	2	0	2	0	1	1	2	0	2	0
e05	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0
e06	2	0	1	1	n/a	n/a	2	0	2	0	n/a	n/a	n/a	n/a	n/a	n/a
e07	2	0	0	2	1	n/a	2	0	2	0	n/a	n/a	n/a	n/a	n/a	n/a
e08	2	0	0	2	n/a	n/a	2	0	2	0	2	0	2	0	2	0
e09	2	0	2	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
e10	2	0	2	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

FIGURE 8a(1), sheet 6 of 6

	intron 1D 167989			intron 1D 167989	
	(780)			(780)	
	T	G		T	G
	0 94	0 06		0 94	0 06
a01	2	0	e01		
a02	2	0	e02	2	0
a03	2	0	e03	1	1
a04	2	0	e04	0	2
a05	2	0	e05	2	0
a06	1	1	e06	1	1
a07	2	0	e07	2	0
a08	2	0	e08	2	0
a09	2	0	e09	2	0
a10	2	0	e10	2	0
a11	2	0	e11	2	0
a12	2	0	e12	2	0
b01	2	0	f01	2	0
b02	2	0	f02	2	0
b03	2	0	f03	1.00	1.00
b04	1	1	f04	2	0
b05	2	0	f05	2	0
b06	2	0	f06	2	0
b07	2	0	f07	2	0
b08			f08	2	0
b09			f09	2	0
b10	2	0	f10	2	0
b11	1	1	f11	2	0
b12			f12	2	0
c01	2	0	g01	2	0
c02	2	0	g02	1	1
c03	2	0	g03	2	0
c04	2	0	g04	2	0
c05	2	0	g05	1	1
c06	2	0	g06	2	0
c07	2	0	g07	1	1
c08	2	0	g08	1	1
c09	2	0	g09	2	0
c10	2	0	g10	2	0
c11	2	0	g11	2	0
c12	2	0	g12	2	0
d01	2	0	h01	1	1
d02	2	0	h02	2	0
d03	2	0	h03	2	0
d04	2	0	h04	2	0
d05	2	0	h05	2	0
d06	2	0	h06	2	0
d07	2	0	h07	2	0
d08	2	0	h08	1	1
d09	2	0	h09	2	0
d10	1	1	h10	2	0
d11	2	0	h11	2	0
d12	1	1	h12	2	0

FIGURE 8a(2)

	exon 1A 170035		exon 1A 170068		exon 1A 170256		exon 1A 170368		exon 1A 170487		exon 1B 169812		exon 1B 169823		exon 1C 167950	
	C	A	G	T	C	T	A	G	G	C	C	G	A	G	C	G
	1 00	0.00	0 99	0 01	0 55	0.45	0 99	0.01	0 87	0 13	0 99	0 01	0.99	0.01	0 98	0 02
T1	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
T2	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
T3	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T4	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
T5	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T6	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
T7	2	0	2	0	1	1	2	0	1	1	2	0	2	0	2	0
T8	2	0	2	0	2	0	2	0	1	1	2	0	2	0	2	0
T9	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
T10	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
T11	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0
T12	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
T13	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0
T14	2	0	2	0	1	1	2	0	2	0	1	1	1	1	2	0
T15	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0
T16	n/a	n/a	n/a	n/a	n/a	n/a	2	0	n/a	n/a	2	0	2	0	2	0
T17	2	0	1	1	1	1	2	0	2	0	2	0	2	0	2	0
T18	2	0	2	0	2	0	2	0	1	1	2	0	2	0	1	1
T19	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0
T20	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T21	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0
T22	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
T23	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0
T24	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0
T25	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T26	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
T27	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
T28	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
T29	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T30	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0
T31	2	0	2	0	2	0	1	1	0	2	2	0	2	0	1	1
T32	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
T33	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T34	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
T35	2	0	2	0	1	1	2	0	1	1	2	0	2	0	2	0
T36	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T37	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T38	2	0	2	0	1	1	2	0	1	1	2	0	2	0	2	0
T39	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T40	2	0	2	0	2	0	2	0	1	1	2	0	2	0	2	0
T41	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
T42	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
T43	2	0	2	0	1	1	2	0	1	1	2	0	2	0	2	0
T44	n/a	n/a	2	0	1	1	2	0	2	0	2	0	2	0	2	0
T45	2	0	2	0	2	0	2	0	0	2	2	0	2	0	2	0
T46	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0
T47	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0
T48	2	0	2	0	2	0	2	0	1	1	2	0	2	0	2	0

FIGURE 8b(1), sheet 1 of 12

	intron 1D 167989		exon 1C 168054		exon 1E 64331		exon 1F 52901		exon 1F 52877		exon 1G 18783		exon 1G 18937		exon 1G 19034	
	T	G	C	G	C	T	C	T	G	T	C	T	A	C	T	C
	0.83	0.17	0.99	0.01	0.63	0.38	1.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00
T1	2	0	2	0	1	1	n/a	n/a	n/a	n/a	2	0	2	0	2	0
T2	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T3	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
T4	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T5	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0
T6	2	0	2	0	1	1	n/a	n/a	n/a	n/a	2	0	2	0	2	0
T7	1	1	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T8	0	2	2	0	1	1	2	0	2	0	2	0	2	0	2	0
T9	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0
T10	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T11	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T12	1	1	2	0	2	0	n/a	n/a	n/a	n/a	2	0	2	0	2	0
T13	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
T14	1	1	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T15	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T16	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
T17	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T18	1	1	2	0	1	1	2	0	2	0	2	0	2	0	2	0
T19	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
T20	2	0	2	0	0	2	n/a	n/a	n/a	n/a	2	0	2	0	2	0
T21	2	0	2	0	2	0	n/a	n/a	n/a	n/a	2	0	2	0	2	0
T22	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
T23	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T24	2	0	2	0	1	1	n/a	n/a	n/a	n/a	2	0	2	0	2	0
T25	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0
T26	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T27	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
T28	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0
T29	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0
T30	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
T31	0	2	2	0	1	1	2	0	2	0	2	0	2	0	2	0
T32	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T33	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0
T34	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T35	1	1	2	0	1	1	2	0	2	0	2	0	2	0	2	0
T36	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
T37	1	1	1	1	1	1	2	0	2	0	2	0	2	0	2	0
T38	1	1	2	0	1	1	2	0	2	0	2	0	2	0	2	0
T39	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0
T40	1	1	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T41	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T42	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
T43	1	1	2	0	1	1	2	0	2	0	2	0	2	0	2	0
T44	2	0	2	0	2	0	n/a	n/a	n/a	n/a	2	0	2	0	2	0
T45	0	2	2	0	2	0	n/a	n/a	n/a	n/a	2	0	2	0	2	0
T46	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T47	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T48	1	1	2	0	1	1	n/a	n/a	n/a	n/a	2	0	2	0	2	0

FIGURE 8b(1), sheet 2 of 12

	Intron 3 243187		exon 3 243055		exon 4 306292		exon 4 306382		exon 6 423067		Intron 6 423149		Intron 6 423163		Intron 6 423220	
	C	T	C	T	G	A	C	G	T	C	G	T	A	G	G	A
	0.63	0.38	0.97	0.03	0.99	0.01	0.83	0.17	1.00	0.00	0.88	0.13	0.90	0.10	0.70	0.30
T1	1	1	2	0	2	0	1	1	2	0	2	0	2	0	2	0
T2	1	1	1	1	2	0	1	1	2	0	2	0	2	0	2	0
T3	1	1	2	0	2	0	2	0	2	0	2	0	2	0	1	1
T4	1	1	1	1	2	0	2	0	2	0	2	0	2	0	1	1
T5	2	0	2	0	2	0	2	0	2	0	2	0	2	0	0	2
T6	1	1	2	0	1	1	1	1	2	0	1	1	1	1	2	0
T7	1	1	2	0	2	0	2	0	2	0	2	0	2	0	1	1
T8	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T9	2	0	2	0	2	0	2	0	2	0	2	0	2	0	1	1
T10	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T11	1	1	2	0	2	0	2	0	2	0	2	0	2	0	1	1
T12	1	1	2	0	2	0	1	1	2	0	0	2	0	2	2	0
T13	0	2	2	0	2	0	2	0	2	0	2	0	2	0	1	1
T14	0	2	2	0	2	0	2	0	2	0	0	2	1	1	2	0
T15	1	1	2	0	2	0	2	0	2	0	1	1	1	1	2	0
T16	2	0	2	0	2	0	2	0	n/a	n/a	2	0	2	0	2	0
T17	0	2	2	0	2	0	0	2	2	0	2	0	2	0	2	0
T18	1	1	2	0	2	0	2	0	2	0	1	1	2	0	1	1
T19	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T20	0	2	2	0	2	0	0	2	2	0	2	0	2	0	2	0
T21	1	1	2	0	2	0	2	0	2	0	2	0	2	0	1	1
T22	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T23	1	1	2	0	2	0	1	1	2	0	1	1	0	2	2	0
T24	0	2	1	1	2	0	0	2	2	0	2	0	2	0	2	0
T25	0	2	2	0	2	0	2	0	2	0	2	0	2	0	0	2
T26	1	1	2	0	2	0	1	1	2	0	2	0	2	0	2	0
T27	2	0	2	0	2	0	2	0	2	0	2	0	2	0	0	2
T28	2	0	2	0	2	0	2	0	2	0	2	0	2	0	1	1
T29	2	0	2	0	2	0	2	0	2	0	2	0	2	0	0	2
T30	2	0	2	0	2	0	2	0	2	0	2	0	2	0	0	2
T31	2	0	2	0	2	0	2	0	2	0	1	1	2	0	1	1
T32	2	0	2	0	2	0	2	0	2	0	2	0	2	0	1	1
T33	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T34	0	2	2	0	2	0	1	1	2	0	0	2	0	2	2	0
T35	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T36	2	0	2	0	2	0	2	0	2	0	2	0	2	0	1	1
T37	0	2	2	0	2	0	2	0	2	0	2	0	2	0	1	1
T38	1	1	2	0	2	0	2	0	2	0	2	0	2	0	1	1
T39	2	0	2	0	2	0	2	0	2	0	2	0	2	0	0	2
T40	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T41	1	1	2	0	2	0	2	0	2	0	2	0	2	0	1	1
T42	1	1	2	0	2	0	1	1	2	0	2	0	2	0	1	1
T43	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T44	0	2	2	0	2	0	1	1	2	0	1	1	1	1	1	1
T45	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T46	0	2	2	0	2	0	1	1	2	0	2	0	2	0	2	0
T47	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T48	2	0	2	0	n/a	n/a	n/a	n/a	2	0	2	0	2	0	2	0

FIGURE 8b(1), sheet 3 of 12

	Intron 6 423232		Intron 6 423258		Intron 7 460553		Intron 7 460564		exon 8 461199		exon 8 461199		exon 8 461231		exon 8 461337	
	C	G	A	G	C	T	G	A	G	A	T	C	A	G	A	C
	0.98	0.02	0.89	0.11	0.96	0.04	0.99	0.01	0.86	0.12	0.99	0.01	0.99	0.01	1.00	0.00
T1	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T2	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T3	2	0	2	0	2	0	2	0	1	1	1	1	2	0	2	0
T4	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T5	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0
T6	2	0	1	1	2	0	2	0	2	0	2	0	2	0	2	0
T7	1	1	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T8	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T9	2	0	2	0	2	0	2	0	1	1	2	0	2	0	2	0
T10	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T11	2	0	2	0	2	0	2	0	0	2	2	0	2	0	2	0
T12	2	0	1	1	2	0	2	0	2	0	2	0	2	0	2	0
T13	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T14	2	0	0	2	2	0	2	0	2	0	2	0	2	0	2	0
T15	2	0	1	1	2	0	2	0	1	1	n/a	n/a	n/a	n/a	n/a	n/a
T16	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T17	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T18	2	0	1	1	2	0	2	0	2	0	2	0	2	0	2	0
T19	2	0	2	0	2	0	2	0	1	1	2	0	2	0	2	0
T20	1	1	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T21	2	0	2	0	2	0	2	0	1	1	2	0	2	0	2	0
T22	2	0	2	0	2	0	2	0	1	1	2	0	2	0	2	0
T23	2	0	1	1	2	0	2	0	2	0	2	0	2	0	2	0
T24	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T25	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T26	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T27	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T28	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T29	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T30	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T31	2	0	1	1	2	0	2	0	2	0	2	0	2	0	2	0
T32	2	0	2	0	1	1	2	0	2	0	2	0	1	1	2	0
T33	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T34	2	0	0	2	2	0	2	0	2	0	2	0	2	0	2	0
T35	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T36	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T37	2	0	2	0	2	0	1	1	1	1	2	0	2	0	2	0
T38	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T39	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
T40	2	0	2	0	2	0	2	0	1	1	2	0	2	0	2	0
T41	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T42	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T43	2	0	2	0	n/a	n/a	n/a	n/a	2	0	2	0	2	0	2	0
T44	2	0	1	1	n/a	n/a	n/a	n/a	2	0	2	0	2	0	2	0
T45	2	0	2	0	2	0	2	0	1	1	2	0	2	0	2	0
T46	2	0	2	0	2	0	2	0	1	1	2	0	2	0	2	0
T47	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T48	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0

FIGURE 8b(1), sheet 4 of 12

	exon 8 461520		exon 8 461843		exon 8 461968		exon 8 462125		exon 8 4623998		exon 8 462683		exon 8 462949		exon 8 463958	
	C	G	G	A	T	C	C	T	G	A	C	A	T	G	T	C
	0 97	0 03	0 99	0 01	0 51	0 49	1 00	0 00	1 00	0 00	0 95	0 05	1 00	0 00	0 96	0 04
T1	1	1	2	0	0	2	2	0	2	0	2	0	2	0	2	0
T2	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0
T3	1	1	2	0	1	1	2	0	2	0	2	0	2	0	2	0
T4	2	0	2	0	0	2	n/a	n/a	2	0	2	0	2	0	1	1
T5	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0
T6	2	0	2	0	1	1	2	0	2	0	1	1	2	0	2	0
T7	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
T8	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T9	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
T10	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T11	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0
T12	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T13	2	0	2	0	2	0	2	0	2	0	2	0	2	0	1	1
T14	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0
T15	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
T16	2	0	2	0	2	0	2	0	2	0	1	1	2	0	n/a	n/a
T17	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0
T18	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0
T19	2	0	2	0	1	1	2	0	2	0	2	0	2	0	1	1
T20	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T21	2	0	2	0	n/a	n/a	2	0	2	0	2	0	2	0	2	0
T22	2	0	2	0	1	1	2	0	n/a	n/a	2	0	2	0	1	1
T23	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T24	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0
T25	2	0	2	0	2	0	2	0	2	0	0	2	2	0	2	0
T26	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0
T27	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0
T28	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T29	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T30	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0
T31	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
T32	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
T33	1	1	2	0	1	1	2	0	2	0	2	0	2	0	n/a	n/a
T34	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
T35	2	0	1	1	0	2	2	0	2	0	2	0	2	0	n/a	n/a
T36	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T37	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
T38	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0
T39	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
T40	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
T41	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T42	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T43	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0
T44	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
T45	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
T46	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0
T47	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
T48	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0

FIGURE 8b(1), sheet 5 of 12

	exon 8 463966		exon 8 464237		exon 8 464735		exon 8 465074		exon 8 54404		exon 8 54460	
	C	T	G	A	T	A	T	C	G	A	C	A
	0.99	0.01	0.98	0.02	0.96	0.04	1.00	0.00	0.74	0.26	0.97	0.03
T1	2	0	2	0	2	0	2	0	2	0	2	0
T2	2	0	2	0	2	0	2	0	2	0	2	0
T3	2	0	2	0	2	0	2	0	2	0	2	0
T4	2	0	2	0	1	1	2	0	2	0	2	0
T5	2	0	2	0	2	0	2	0	2	0	2	0
T6	2	0	2	0	1	1	2	0	2	0	1	1
T7	2	0	2	0	2	0	2	0	1	1	2	0
T8	2	0	1	1	2	0	2	0	2	0	2	0
T9	2	0	2	0	2	0	2	0	2	0	2	0
T10	2	0	2	0	2	0	2	0	1	1	2	0
T11	2	0	2	0	2	0	2	0	2	0	2	0
T12	2	0	2	0	2	0	2	0	0	2	2	0
T13	2	0	2	0	2	0	2	0	1	1	2	0
T14	2	0	2	0	2	0	2	0	2	0	2	0
T15	2	0	2	0	2	0	2	0	2	0	2	0
T16	n/a	n/a	2	0	1	1	2	0	1	1	1	1
T17	2	0	2	0	2	0	2	0	2	0	2	0
T18	2	0	2	0	2	0	2	0	2	0	2	0
T19	2	0	2	0	2	0	2	0	2	0	2	0
T20	2	0	2	0	2	0	2	0	2	0	2	0
T21	2	0	2	0	2	0	2	0	1	1	n/a	n/a
T22	2	0	2	0	1	1	2	0	2	0	2	0
T23	2	0	2	0	2	0	2	0	1	1	2	0
T24	2	0	2	0	2	0	2	0	2	0	2	0
T25	2	0	2	0	2	0	2	0	1	1	2	0
T26	2	0	2	0	2	0	2	0	1	1	2	0
T27	2	0	2	0	2	0	2	0	2	0	n/a	n/a
T28	2	0	2	0	2	0	2	0	0	2	2	0
T29	2	0	2	0	2	0	2	0	2	0	2	0
T30	2	0	2	0	2	0	2	0	2	0	2	0
T31	2	0	2	0	2	0	2	0	1	1	2	0
T32	2	0	2	0	2	0	2	0	1	1	n/a	n/a
T33	n/a	n/a	2	0	2	0	2	0	1	1	2	0
T34	1	1	2	0	2	0	2	0	1	1	2	0
T35	n/a	n/a	2	0	2	0	2	0	2	0	n/a	n/a
T36	2	0	2	0	2	0	2	0	0	2	2	0
T37	2	0	2	0	2	0	2	0	2	0	2	0
T38	2	0	2	0	2	0	2	0	2	0	2	0
T39	2	0	2	0	2	0	2	0	1	1	2	0
T40	2	0	2	0	2	0	2	0	1	1	2	0
T41	2	0	2	0	2	0	2	0	n/a	n/a	n/a	n/a
T42	2	0	2	0	2	0	2	0	0	2	2	0
T43	2	0	2	0	2	0	2	0	n/a	n/a	n/a	n/a
T44	2	0	2	0	2	0	2	0	n/a	n/a	n/a	n/a
T45	2	0	1	1	2	0	2	0	2	0	n/a	n/a
T46	2	0	2	0	2	0	2	0	2	0	n/a	n/a
T47	2	0	2	0	2	0	n/a	n/a	n/a	n/a	n/a	n/a
T48	2	0	2	0	2	0	2	0	1	1	2	0

FIGURE 8b(1), sheet 6 of 12

	exon 1A 170035		exon 1A 170068		exon 1A 170256		exon 1A 170368		exon 1A 170487		exon 1B 169812		exon 1B 169823		exon 1C 167950	
	C	A	G	T	C	T	A	G	G	C	C	G	A	G	C	G
sum tumor	92	0	93	1	52	42	95	1	82	12	95	1	95	1	94	2
blood freq	1.00	0.00	0.99	0.01	0.50	0.50	0.99	0.01	0.92	0.08	0.99	0.01	0.99	0.01	0.98	0.02
B1	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
B2	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0
B3	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B4	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
B5	B6	B7	B8	0	2	0	2	0	2	0	2	0	2	0	2	0
B6	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
B7	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	2	0	2	0	2	0
B8	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B9	n/a	n/a	n/a	n/a	1	1	2	0	n/a	n/a	2	0	2	0	2	0
B10	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
B11	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0
B12	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
B13	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0
B14	2	0	2	0	1	1	2	0	2	0	1	1	1	1	2	0
B15	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0
B16	n/a	n/a	n/a	n/a	n/a	n/a	2	0	2	0	2	0	2	0	2	0
B17	2	0	1	1	1	1	2	0	2	0	2	0	2	0	2	0
B18	2	0	2	0	2	0	2	0	1	1	2	0	2	0	1	1
B19	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0
B20	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
B21	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0
B22	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
B23	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
B24	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0
B25	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
B26	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
B27	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
B28	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
B29	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B30	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0
B31	2	0	2	0	2	0	1	1	0	2	2	0	2	0	1	1
B32	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
B33	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B34	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
B35	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
B36	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B37	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B38	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0
B39	n/a	n/a	2	0	1	1	2	0	2	0	2	0	2	0	2	0
B40	2	0	2	0	0	2	2	0	1	1	2	0	2	0	2	0
B41	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
B42	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B43	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0
B44	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
B45	2	0	2	0	2	0	2	0	0	2	2	0	2	0	2	0
B46	n/a	n/a	n/a	n/a	na	na	n/a	n/a	n/a	n/a	2	0	2	0	2	0
B47	2	0	2	0	2	0	2	0	1	1	2	0	2	0	2	0
B48	n/a	n/a	2	0	0	2	2	0	2	0	2	0	2	0	2	0

FIGURE 8b(1), sheet 7 of 12

	intron 1D 167989		exon 1C 168054		exon 1E 64331		exon 1F 52901		exon 1F 52877		exon 1G 18783		exon 1G 18937		exon 1G 19034	
	T	G	C	G	C	T	C	T	G	T	C	T	A	C	T	C
sum tumor	80	16	95	1	60	36	78	0	78	0	96	0	96	0	96	0
blood freq	0.84	0.16	0.99	0.01	0.64	0.36	1.00	0.00	0.97	0.03	1.00	0.00	1.00	0.00	0.99	0.01
B1	2	0	2	0	1	1	n/a	n/a	n/a	n/a	2	0	2	0	2	0
B2	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
B3	2	0	2	0	1	1	n/a	n/a	n/a	n/a	2	0	2	0	2	0
B4	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B5	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
B6	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
B7	1	1	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B8	0	2	2	0	1	1	2	0	2	0	2	0	2	0	2	0
B9	2	0	2	0	0	2	n/a	n/a	n/a	n/a	2	0	2	0	2	0
B10	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B11	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
B12	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B13	2	0	2	0	1	1	n/a	n/a	n/a	n/a	2	0	2	0	2	0
B14	1	1	2	0	2	0	n/a	n/a	n/a	n/a	2	0	2	0	2	0
B15	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B16	2	0	2	0	1	1	n/a	n/a	n/a	n/a	2	0	2	0	2	0
B17	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B18	1	1	2	0	1	1	2	0	2	0	2	0	2	0	2	0
B19	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
B20	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
B21	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B22	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
B23	2	0	2	0	2	0	n/a	n/a	n/a	n/a	2	0	2	0	2	0
B24	2	0	2	0	1	1	2	0	1	1	2	0	2	0	2	0
B25	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
B26	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B27	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
B28	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0
B29	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0
B30	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
B31	0	2	2	0	1	1	2	0	2	0	2	0	2	0	2	0
B32	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B33	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0
B34	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B35	2	0	2	0	1	1	2	0	1	1	2	0	2	0	2	0
B36	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
B37	1	1	1	1	1	1	n/a	n/a	n/a	n/a	2	0	2	0	2	0
B38	1	1	2	0	2	0	n/a	n/a	n/a	n/a	2	0	2	0	2	0
B39	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0
B40	1	1	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B41	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B42	1	1	2	0	0	2	2	0	2	0	2	0	2	0	1	1
B43	1	1	2	0	1	1	2	0	2	0	2	0	2	0	2	0
B44	2	0	2	0	2	0	n/a	n/a	n/a	n/a	2	0	2	0	2	0
B45	0	2	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B46	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B47	1	1	2	0	1	1	2	0	2	0	2	0	2	0	2	0
B48	2	0	2	0	2	0	n/a	n/a	n/a	n/a	2	0	2	0	2	0

FIGURE 8b(1), sheet 8 of 12

	Intron 3 243187		exon 3 243055		exon 4 306292		exon 4 306382		exon 6 423067		Intron 6 423149		Intron 6 423163		Intron 6 423220	
	C	T	C	T	G	A	C	G	T	C	G	T	A	G	G	A
	60	36	93	3	93	1	78	16	94	0	84	12	86	10	67	29
sum tumor	0.59	0.41	0.98	0.02	0.99	0.01	0.82	0.18	1.00	0.00	0.89	0.11	0.90	0.10	0.70	0.30
blood freq	0.59	0.41	0.98	0.02	0.99	0.01	0.82	0.18	1.00	0.00	0.89	0.11	0.90	0.10	0.70	0.30
B1	1	1	2	0	2	0	1	1	2	0	2	0	2	0	2	0
B2	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B3	1	1	2	0	2	0	2	0	2	0	2	0	2	0	1	1
B4	1	1	1	1	2	0	1	1	2	0	2	0	2	0	1	1
B5	1	1	2	0	2	0	1	1	2	0	2	0	2	0	1	1
B6	1	1	2	0	1	1	1	1	2	0	1	1	1	1	2	0
B7	1	1	2	0	2	0	2	0	2	0	2	0	2	0	1	1
B8	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B9	2	0	2	0	2	0	2	0	2	0	2	0	2	0	1	1
B10	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B11	1	1	2	0	2	0	2	0	2	0	2	0	2	0	1	1
B12	1	1	2	0	2	0	1	1	2	0	1	1	1	1	2	0
B13	0	2	2	0	2	0	2	0	2	0	2	0	1	1	1	1
B14	0	2	2	0	2	0	2	0	2	0	0	2	1	1	2	0
B15	1	1	2	0	2	0	2	0	2	0	1	1	1	1	2	0
B16	1	1	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B17	0	2	2	0	2	0	0	2	2	0	2	0	2	0	2	0
B18	1	1	2	0	2	0	2	0	2	0	1	1	2	0	1	1
B19	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B20	0	2	2	0	2	0	0	2	2	0	2	0	2	0	2	0
B21	1	1	2	0	2	0	2	0	2	0	2	0	2	0	1	1
B22	2	0	2	0	2	0	1	1	2	0	2	0	2	0	2	0
B23	1	1	2	0	2	0	1	1	2	0	1	1	0	2	2	0
B24	0	2	1	1	2	0	0	2	2	0	2	0	2	0	2	0
B25	0	2	2	0	2	0	2	0	2	0	2	0	2	0	0	2
B26	1	1	2	0	2	0	1	1	2	0	2	0	2	0	2	0
B27	2	0	2	0	2	0	2	0	2	0	2	0	2	0	0	2
B28	2	0	2	0	2	0	2	0	2	0	2	0	2	0	1	1
B29	2	0	2	0	2	0	2	0	2	0	2	0	2	0	0	2
B30	2	0	2	0	2	0	2	0	2	0	2	0	2	0	1	1
B31	2	0	2	0	2	0	2	0	2	0	1	1	2	0	1	1
B32	2	0	2	0	2	0	2	0	2	0	2	0	2	0	1	1
B33	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B34	0	2	2	0	2	0	1	1	2	0	0	2	0	2	2	0
B35	0	2	2	0	2	0	2	0	2	0	2	0	2	0	1	1
B36	2	0	2	0	2	0	2	0	2	0	2	0	2	0	1	1
B37	0	2	2	0	2	0	2	0	2	0	2	0	2	0	1	1
B38	1	1	2	0	2	0	2	0	2	0	2	0	2	0	1	1
B39	2	0	2	0	2	0	2	0	2	0	2	0	2	0	0	2
B40	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B41	1	1	2	0	2	0	2	0	2	0	2	0	2	0	1	1
B42	1	1	2	0	2	0	2	0	2	0	2	0	2	0	0	2
B43	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B44	0	2	2	0	2	0	1	1	2	0	1	1	1	1	1	1
B45	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B46	0	2	2	0	2	0	1	1	2	0	2	0	2	0	2	0
B47	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B48	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0

FIGURE 8b(1), sheet 9 of 12

	Intron 6 423232		Intron 6 423258		Intron 7 460553		Intron 7 460564		exon 8 461199		exon 8 461199		exon 8 461231		exon 8 461337	
	C	G	A	G	C	T	G	A	G	A	T	C	A	G	A	C
	94	2	85	11	88	4	91	1	83	13	93	1	93	1	94	0
sum tumor	0.98	0.02	0.88	0.13	0.98	0.02	1.00	0.00	#REF!	0.19	0.99	0.01	0.99	0.01	1.00	0.00
blood freq	0.98	0.02	0.88	0.13	0.98	0.02	1.00	0.00	#REF!	0.19	0.99	0.01	0.99	0.01	1.00	0.00
B1	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B2	2	0	2	0	2	0	2	0	1	1	2	0	2	0	2	0
B3	2	0	2	0	2	0	2	0	1	1	1	1	2	0	2	0
B4	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B5	2	0	2	0	1	1	2	0	1	1	2	0	2	0	2	0
B6	2	0	1	1	2	0	2	0	2	0	2	0	2	0	2	0
B7	1	1	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B8	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B9	2	0	2	0	n/a	n/a	n/a	n/a	1	1	2	0	2	0	2	0
B10	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B11	2	0	2	0	2	0	2	0	0	2	2	0	2	0	2	0
B12	2	0	1	1	2	0	2	0	2	0	2	0	2	0	2	0
B13	2	0	1	1	2	0	2	0	2	0	2	0	2	0	2	0
B14	2	0	0	2	2	0	2	0	2	0	2	0	2	0	2	0
B15	2	0	1	1	2	0	2	0	1	1	2	0	2	0	2	0
B16	2	0	2	0	n/a	n/a	n/a	n/a	2	0	n/a	n/a	n/a	n/a	n/a	n/a
B17	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B18	2	0	1	1	2	0	2	0	2	0	2	0	2	0	2	0
B19	2	0	2	0	2	0	2	0	1	1	2	0	2	0	2	0
B20	1	1	2	0	2	0	2	0	1	1	2	0	2	0	2	0
B21	2	0	2	0	2	0	2	0	1	1	2	0	2	0	2	0
B22	2	0	2	0	2	0	2	0	1	1	2	0	2	0	2	0
B23	2	0	1	1	2	0	2	0	2	0	2	0	2	0	2	0
B24	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B25	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B26	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B27	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B28	2	0	2	0	n/a	n/a	n/a	n/a	2	0	2	0	2	0	2	0
B29	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B30	2	0	2	0	2	0	2	0	1	1	2	0	2	0	2	0
B31	2	0	1	1	2	0	2	0	2	0	2	0	2	0	2	0
B32	2	0	2	0	1	1	2	0	2	0	2	0	1	1	2	0
B33	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B34	2	0	0	2	2	0	2	0	2	0	2	0	2	0	2	0
B35	2	0	2	0	n/a	n/a	n/a	n/a	0	2	2	0	2	0	2	0
B36	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B37	2	0	2	0	2	0	2	0	1	1	2	0	2	0	2	0
B38	2	0	2	0	2	0	2	0	1	1	2	0	2	0	2	0
B39	2	0	2	0	n/a	n/a	n/a	n/a	2	0	n/a	n/a	2	0	2	0
B40	2	0	2	0	2	0	2	0	1	1	2	0	2	0	2	0
B41	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B42	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B43	2	0	2	0	2	0	2	0	1	1	2	0	2	0	2	0
B44	2	0	1	1	2	0	2	0	2	0	n/a	n/a	n/a	n/a	n/a	n/a
B45	2	0	2	0	2	0	2	0	1	1	2	0	2	0	2	0
B46	2	0	2	0	n/a	n/a	n/a	n/a	1	1	2	0	2	0	2	0
B47	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B48	2	0	2	0	n/a	n/a	n/a	n/a	2	0	n/a	n/a	n/a	n/a	n/a	n/a

FIGURE 8b(1), sheet 10 of 12

	exon 8 461520		exon 8 461843		exon 8 461968		exon 8 462125		exon 8 4623998		exon 8 462683		exon 8 462949		exon 8 463958	
	C	G	G	A	T	C	C	T	G	A	C	A	T	G	T	C
	93	3	95	1	48	46	94	0	94	0	91	5	96	0	86	4
sum tumor	0.97	0.03	0.99	0.01	0.52	0.48	1.00	0.00	1.00	0.00	0.97	0.03	1.00	0.00	0.94	0.06
blood freq	0.97	0.03	0.99	0.01	0.52	0.48	1.00	0.00	1.00	0.00	0.97	0.03	1.00	0.00	0.94	0.06
B1	1	1	2	0	0	2	2	0	2	0	2	0	2	0	2	0
B2	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
B3	1	1	2	0	1	1	2	0	2	0	2	0	2	0	2	0
B4	2	0	2	0	0	2	2	0	2	0	2	0	2	0	1	1
B5	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0
B6	2	0	2	0	1	1	2	0	n/a	n/a	2	0	n/a	n/a	2	0
B7	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
B8	2	0	2	0	2	0	2	0	n/a	n/a	2	0	2	0	2	0
B9	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
B10	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B11	2	0	2	0	0	2	2	0	2	0	2	0	2	0	n/a	n/a
B12	2	0	2	0	2	0	2	0	2	0	2	0	2	0	1	1
B13	2	0	2	0	2	0	2	0	n/a	n/a	2	0	2	0	n/a	n/a
B14	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0
B15	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
B16	n/a	n/a	n/a	n/a	n/a	n/a	2	0	2	0	1	1	2	0	n/a	n/a
B17	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0
B18	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0
B19	2	0	2	0	1	1	2	0	2	0	2	0	2	0	1	1
B20	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
B21	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
B22	2	0	2	0	2	0	2	0	2	0	2	0	2	0	1	1
B23	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B24	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0
B25	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0
B26	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0
B27	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
B28	2	0	2	0	1	n/a	2	0	2	0	2	0	2	0	n/a	n/a
B29	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B30	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0
B31	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
B32	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
B33	1	1	2	0	1	1	2	0	2	0	2	0	2	0	2	0
B34	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
B35	2	0	1	1	1	1	2	0	2	0	2	0	2	0	2	0
B36	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B37	2	0	2	0	1	1	2	0	2	0	2	0	n/a	n/a	2	0
B38	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0
B39	2	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
B40	2	0	2	0	1	1	2	0	n/a	n/a	2	0	n/a	n/a	n/a	n/a
B41	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B42	2	0	2	0	1	1	2	0	2	0	2	0	2	0	1	1
B43	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
B44	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
B45	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
B46	2	0	2	0	0	2	2	0	2	0	2	0	2	0	n/a	n/a
B47	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
B48	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

FIGURE 8b(1), sheet 11 of 12

	exon 8 463966		exon 8 464237		exon 8 464735		exon 8 465074		exon 8 54404		exon 8 54460	
	C	T	G	A	T	A	T	C	G	A	C	A
sum tumor	89	1	94	2	92	4	94	0	65	23	74	2
blood freq	0.99	0.01	0.98	0.02	0.90	0.10	1.00	0.00	0.74	0.26	0.96	0.04
B1	2	0	2	0	2	0	2	0	n/a	n/a	n/a	n/a
B2	2	0	2	0	2	0	2	0	2	0	2	0
B3	2	0	2	0	2	0	2	0	2	0	2	0
B4	2	0	2	0	1	1	2	0	2	0	2	0
B5	2	0	2	0	2	0	2	0	2	0	2	0
B6	2	0	2	0	1	1	2	0	2	0	1	1
B7	2	0	2	0	2	0	2	0	1	1	2	0
B8	2	0	1	1	2	0	2	0	2	0	2	0
B9	2	0	2	0	2	0	2	0	n/a	n/a	n/a	n/a
B10	2	0	2	0	2	0	2	0	1	1	2	0
B11	n/a	n/a	2	0	2	0	2	0	2	0	2	0
B12	2	0	2	0	1	1	2	0	1	1	2	0
B13	n/a	n/a	2	0	1	1	2	0	n/a	n/a	n/a	n/a
B14	2	0	2	0	2	0	2	0	2	0	n/a	n/a
B15	2	0	2	0	2	0	2	0	2	0	2	0
B16	n/a	n/a	2	0	2	0	n/a	n/a	n/a	n/a	n/a	n/a
B17	2	0	2	0	2	0	2	0	2	0	2	0
B18	2	0	2	0	2	0	2	0	1	1	2	0
B19	2	0	2	0	1	1	2	0	2	0	2	0
B20	2	0	2	0	2	0	2	0	2	0	2	0
B21	2	0	2	0	2	0	2	0	1	1	2	0
B22	2	0	2	0	1	1	2	0	2	0	2	0
B23	2	0	2	0	2	0	2	0	1	1	2	0
B24	2	0	2	0	2	0	2	0	2	0	2	0
B25	2	0	2	0	1	1	2	0	1	1	1	1
B26	2	0	2	0	1	1	2	0	1	1	1	1
B27	2	0	2	0	2	0	2	0	1	1	2	0
B28	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
B29	2	0	2	0	2	0	2	0	0	2	2	0
B30	2	0	2	0	2	0	2	0	2	0	2	0
B31	2	0	2	0	2	0	2	0	1	1	2	0
B32	2	0	2	0	2	0	2	0	2	0	2	0
B33	2	0	2	0	2	0	2	0	1	1	2	0
B34	1	1	2	0	2	0	2	0	1	1	2	0
B35	2	0	2	0	2	0	2	0	1	1	2	0
B36	2	0	2	0	2	0	2	0	0	2	2	0
B37	2	0	2	0	2	0	2	0	2	0	2	0
B38	2	0	2	0	2	0	2	0	2	0	2	0
B39	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
B40	2	0	2	0	2	0	n/a	n/a	n/a	n/a	n/a	n/a
B41	2	0	2	0	2	0	2	0	1	1	2	0
B42	2	0	2	0	1	1	2	0	2	0	2	0
B43	2	0	2	0	2	0	2	0	2	0	2	0
B44	2	0	2	0	2	0	2	0	1	1	2	0
B45	2	0	1	1	2	0	2	0	2	0	2	0
B46	n/a	n/a	2	0	2	0	n/a	n/a	n/a	n/a	n/a	n/a
B47	2	0	2	0	2	0	2	0	1	1	2	0
B48	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

FIGURE 8b(1), sheet 12 of 12

Patient Codes: B=patient blood, T=patient tumor, LC=Liverpool controls									
Template	Patient #	Amelogenin		170,487		167,989		56,346	
		Allele 1	Allele 2	Allele 1	Allele 2	Allele 1	Allele 2	Allele 1	Allele 2
	3 B100	2	0	2	0	2	0		
	3 B101	2	0	2	0	2	0		
	3 B102	2	0	2	0	2	0		
	3 B103	2	0	1	1	1	1		
	3 B104	2	0	1	1	1	1		
	3 B105	2	0	2	0	2	0		
	3 B106	2	0	2	0	2	0		
	3 B107	2	0	2	0	2	0		
	3 B108	2	0	2	0	2	0		
	3 B49	2	0	2	0	2	0		
	3 B50	2	0	2	0	2	0		
	3 B51	2	0	2	0	2	0		
	3 B52	2	0	2	0	2	0		
	3 B53	2	0	2	0	2	0		
	3 B54	2	0	2	0	2	0		
	3 B55	2	0	1	1	1	1		
	3 B56	2	0	1	1	1	1		
	3 B57	2	0	2	0	2	0		
	3 B58	2	0	2	0	2	0		
	3 B59	2	0	2	0	2	0		
	3 B60	2	0	2	0	2	0		
	3 B61	2	0	1	1	1	1		
	3 B62	2	0	2	0	2	0		
	3 B63	2	0	2	0	2	0		
	3 B64	2	0	1	1	1	1		
	3 B65	2	0	2	0	2	0		
	3 B66	2	0	2	0	2	0		
	3 B67	2	0	2	0	2	0		
	3 B68	2	0	2	0	2	0		
	3 B69	2	0	2	0	2	0		
	3 B70	2	0	1	1	1	1		
	3 B71	2	0	2	0	2	0		
	3 B72	2	0	2	0	2	0		
	3 B73	2	0	1	1	1	1		
	3 B74	2	0	2	0	2	0		
	3 B75	2	0	2	0	1	1		
	3 B76	2	0	2	0	2	0		
	3 B77	2	0	2	0	2	0		
	3 B78	2	0	2	0	2	0		
	3 B79	2	0	2	0	2	0		
	3 B80	2	0	2	0	Undetermined	Undetermined		
	3 B81	2	0	2	0	2	0		
	3 B82	2	0	1	1	1	1		
	3 B83	2	0	2	0	2	0		
	3 B84	2	0	2	0	2	0		
	3 B85	2	0	2	0	2	0		
	3 B86	2	0	0	2	0	2		
	3 B87	2	0	2	0	2	0		
	3 B88	2	0	2	0	2	0		
	3 B89	2	0	1	1	1	1		
	3 B90	2	0	2	0	2	0		
	3 B91	2	0	1	1	1	1		
	3 B92	2	0	2	0	2	0		
	3 B93	2	0	2	0	2	0		
	3 B94	2	0	2	0	2	0		
	3 B95	2	0	1	1	1	1		
	3 B96	2	0	1	1	1	1		
	3 B97	2	0	2	0	2	0		
	3 B98	2	0	2	0	2	0		
	3 B99	2	0	2	0	2	0		
Number seen		120	0	105	15	102	16	na	na
Frequency		100.0%	0.00	87.5%	0.13	86.4%	0.14	na	na

FIGURE 8b(2), sheet 1 of 8

es:B=patien				
Patient #	461968	Allele 2	54404	Allele 2
	Allele 1		Allele 1	
B100	1	1	0	2
B101	1	1	0	2
B102	1	1	0	2
B103	0	2	0	2
B104	1	1	0	2
B105	1	1	0	2
B106	0	2	1	1
B107	0	2	0	2
B108	2	0	1	1
B49	1	1	1	1
B50	1	1	0	2
B51	1	1	0	2
B52	2	0	1	1
B53	0	2	0	2
B54	1	1	1	1
B55	0	2	0	2
B56	Undetermined	Undetermined	Undetermined	Undetermined
B57	1	1	0	2
B58	0	2	0	2
B59	2	0	1	1
B60	1	1	0	2
B61	2	0	0	2
B62	1	1	0	2
B63	1	1	0	2
B64	2	0	0	2
B65	2	0	0	2
B66	1	1	1	1
B67	2	0	1	1
B68	1	1	1	1
B69	0	2	0	2
B70	0	2	0	2
B71	1	1	1	1
B72	2	0	1	1
B73	1	1	0	2
B74	2	0	1	1
B75	2	0	1	1
B76	1	1	1	1
B77	1	1	0	2
B78	0	2	0	2
B79	2	0	0	2
B80	1	1	1	1
B81	2	0	0	2
B82	1	1	1	1
B83	0	2	0	2
B84	1	1	1	1
B85	1	1	0	2
B86	1	1	0	2
B87	1	1	0	2
B88	1	1	0	2
B89	2	0	1	1
B90	2	0	0	2
B91	1	1	0	2
B92	1	1	0	2
B93	0	2	0	2
B94	1	1	No Amp	No Amp
B95	0	2	0	2
B96	2	0	0	2
B97	1	1	1	1
B98	1	1	0	2
B99	0	2	0	2
	61	57	19	97
	51.7%	0.48	16.4%	0.84

FIGURE 8b(2), sheet 3 of 8

Template	Patient #	Ameliogenin		170,487		167,989		56,346	
		Allele 1	Allele 2	Allele 1	Allele 2	Allele 1	Allele 2	Allele 1	Allele 2
2 T100		2	0	2	0	2	0		
2 T101		2	0	2	0	2	0		
2 T102		2	0	2	0	2	0		
2 T103		2	0	1	1	Undetermined	Undetermined		
2 T104		2	0	1	1	1	1		
2 T105		2	0	2	0	No Amp	No Amp		
2 T106		2	0	2	0	2	0		
2 T107		2	0	2	0	2	0		
2 T108		2	0	2	0	2	0		
2 T49		2	0	2	0	2	0		
2 T50		2	0	2	0	2	0		
2 T51		2	0	2	0	2	0		
2 T52		2	0	2	0	2	0		
2 T53		2	0	2	0	2	0		
2 T54		2	0	2	0	2	0		
2 T55		2	0	1	1	1	1		
2 T56		2	0	1	1	1	1		
2 T57		2	0	2	0	2	0		
2 T58		2	0	2	0	2	0		
2 T59		2	0	2	0	2	0		
2 T60		2	0	2	0	2	0		
2 T61		2	0	1	1	1	1		
2 T62		2	0	2	0	2	0		
2 T63		2	0	2	0	2	0		
2 T64		2	0	1	1	1	1		
2 T65		2	0	2	0	2	0		
2 T66		2	0	2	0	2	0		
2 T67		2	0	2	0	2	0		
2 T68		2	0	2	0	2	0		
2 T69		2	0	2	0	2	0		
2 T70		2	0	1	1	1	1		
2 T71		2	0	2	0	2	0		
2 T72		2	0	2	0	2	0		
2 T73		2	0	1	1	1	1		
2 T74		2	0	2	0	2	0		
2 T75		2	0	2	0	1	1		
2 T76		2	0	2	0	2	0		
2 T77		2	0	2	0	2	0		
2 T78		2	0	2	0	2	0		
2 T79		2	0	2	0	2	0		
2 T80		2	0	2	0	2	0		
2 T81		2	0	2	0	2	0		
2 T82		2	0	1	1	1	1		
2 T83		2	0	2	0	2	0		
2 T84		2	0	2	0	2	0		
2 T85		2	0	2	0	2	0		
2 T86		2	0	0	2	0	2		
2 T87		2	0	2	0	2	0		
2 T88		2	0	2	0	2	0		
2 T89		2	0	2	0	2	0		
2 T90		2	0	2	0	2	0		
2 T91		2	0	1	1	1	1		
2 T92		2	0	2	0	2	0		
2 T93		2	0	2	0	2	0		
2 T94		2	0	2	0	2	0		
2 T95		2	0	1	1	1	1		
2 T96		2	0	1	1	1	1		
2 T97		2	0	2	0	2	0		
2 T98		2	0	2	0	2	0		
2 T99		2	0	2	0	2	0		
Number seen		120	0	106	14	102	14	na	na
Frequency		100.0%	0.00	88.3%	0.12	87.9%	0.12	na	na

FIGURE 8b(2), sheet 4 of 8

Figure 8b(2), sheet 5 of 8

Patient #	306382		423220		460564		460929	
	Allele 1	Allele 2	Allele 1	Allele 2	Allele 1	Allele 2	Allele 1	Allele 2
T100	Undetermined	Undetermined	1	1	2	0	0	2
T101	1	1	0	2	2	0	0	2
T102	2	0	0	2	2	0	0	2
T103	2	0	0	2	2	0	Undetermined	Undetermined
T104	2	0	0	2	2	0	0	2
T105	2	0	2	0	2	0	1	1
T106	2	0	0	2	2	0	0	2
T107	2	0	0	2	2	0	2	0
T108	2	0	1	1	2	0	0	2
T49	1	1	0	2	2	0	1	1
T50	2	0	0	2	2	0	0	2
T51	1	1	1	1	2	0	0	2
T52	Undetermined	Undetermined	Undetermined	Undetermined	2	0	0	2
T53	1	1	0	2	2	0	1	1
T54	2	0	2	0	2	0	0	2
T55	2	0	1	1	2	0	1	1
T56	0	2	0	2	2	0	1	1
T57	1	1	0	2	2	0	0	2
T58	2	0	1	1	2	0	0	2
T59	2	0	0	2	2	0	0	2
T60	1	1	0	2	2	0	1	1
T61	2	0	0	2	2	0	0	2
T62	1	1	0	2	2	0	0	2
T63	1	1	0	2	2	0	0	2
T64	2	0	1	1	2	0	0	2
T65	2	0	0	2	2	0	0	2
T66	2	0	2	0	2	0	0	2
T67	2	0	2	0	2	0	0	2
T68	2	0	0	2	2	0	0	2
T69	1	1	1	1	2	0	1	1
T70	2	0	1	1	2	0	1	1
T71	Undetermined	Undetermined	0	2	2	0	0	2
T72	2	0	2	0	2	0	0	2
T73	1	1	0	2	2	0	1	1
T74	1	1	0	2	2	0	0	2
T75	1	1	0	2	2	0	0	2
T76	2	0	0	2	2	0	0	2
T77	2	0	1	1	2	0	1	1
T78	0	2	0	2	2	0	0	2
T79	2	0	0	2	2	0	0	2
T80	1	1	2	0	2	0	2	0
T81	2	0	0	2	2	0	0	2
T82	2	0	0	2	2	0	0	2
T83	Undetermined	Undetermined	1	1	2	0	Undetermined	Undetermined
T84	1	1	0	2	2	0	1	1
T85	1	1	0	2	2	0	0	2
T86	2	0	0	2	2	0	1	1
T87	2	0	1	1	2	0	1	1
T88	2	0	0	2	2	0	1	1
T89	2	0	0	2	2	0	0	2
T90	2	0	0	2	2	0	0	2
T91	2	0	0	2	2	0	0	2
T92	1	1	0	2	2	0	0	2
T93	0	2	0	2	2	0	2	0
T94	2	0	0	2	2	0	1	1
T95	2	0	0	2	2	0	1	1
T96	2	0	1	1	2	0	0	2
T97	1	1	0	2	2	0	0	2
T98	2	0	0	2	2	0	0	2
T99	1	1	1	1	2	0	0	2
	88	24	25	93	120	0	22	94
	78.6%	0.21	21.2%	0.79	100.0%	0.00	19.0%	0.81

FIGURE 8b(2), sheet 5 of 8

Patient #	461968		54404	
	Allele 1	Allele 2	Allele 1	Allele 2
T100	Undetermined	Undetermined	0	2
T101	1	1	0	2
T102	1	1	0	2
T103	0	2	0	2
T104	1	1	0	2
T105	1	1	0	2
T106	0	2	1	1
T107	0	2	0	2
T108	2	0	1	1
T49	1	1	Undetermined	Undetermined
T50	1	1	0	2
T51	1	1	0	2
T52	2	0	Undetermined	Undetermined
T53	0	2	0	2
T54	1	1	Undetermined	Undetermined
T55	0	2	0	2
T56	Undetermined	Undetermined	Undetermined	Undetermined
T57	1	1	0	2
T58	0	2	0	2
T59	2	0	Undetermined	Undetermined
T60	1	1	0	2
T61	2	0	0	2
T62	1	1	0	2
T63	1	1	Undetermined	Undetermined
T64	2	0	0	2
T65	2	0	0	2
T66	1	1	1	1
T67	2	0	1	1
T68	1	1	1	1
T69	0	2	0	2
T70	0	2	0	2
T71	Undetermined	Undetermined	Undetermined	Undetermined
T72	2	0	1	1
T73	1	1	0	2
T74	2	0	1	1
T75	2	0	1	1
T76	1	1	1	1
T77	1	1	0	2
T78	0	2	0	2
T79	2	0	0	2
T80	Undetermined	Undetermined	Undetermined	Undetermined
T81	2	0	0	2
T82	1	1	1	1
T83	0	2	0	2
T84	1	1	1	1
T85	1	1	0	2
T86	1	1	0	2
T87	1	1	0	2
T88	1	1	0	2
T89	2	0	Undetermined	Undetermined
T90	2	0	0	2
T91	1	1	0	2
T92	1	1	0	2
T93	0	2	0	2
T94	1	1	0	2
T95	0	2	0	2
T96	2	0	0	2
T97	1	1	1	1
T98	1	1	0	2
T99	0	2	0	2
	58	54	12	90
	51.8%	0.48	11.8%	0.88

FIGURE 8b(2), sheet 6 of 8

Template	Patient #	Amelogenin		170,487		167,989	
		Allele 1	Allele 2	Allele 1	Allele 2	Allele 1	Allele 2
4 LC100						1	1
4 LC101						2	0
4 LC102						2	0
4 LC103						2	0
4 LC104						2	0
4 LC105						2	0
4 LC106						2	0
4 LC107						2	0
4 LC108						1	1
4 LC109						2	0
4 LC110						2	0
4 LC111						2	0
4 LC112						2	0
4 LC113						2	0
4 LC114						No Amp	No Amp
4 LC115						1	1
4 LC117						2	0
4 LC118						2	0
4 LC15						2	0
4 LC22						2	0
4 LC23						1	1
4 LC24						No Amp	No Amp
4 LC25						2	0
4 LC26						2	0
4 LC27						1	1
4 LC28						2	0
4 LC29						2	0
4 LC30						2	0
4 LC31						1	1
4 LC32						1	1
4 LC33						2	0
4 LC34						2	0
4 LC35						Undetermined	Undetermined
4 LC36						2	0
4 LC37						2	0
4 LC38						2	0
4 LC39						0	2
4 LC40						2	0
4 LC41						2	0
4 LC42						2	0
4 LC43						1	1
4 LC44						2	0
4 LC45						2	0
4 LC46						2	0
4 LC47						2	0
4 LC48						2	0
4 LC49						Undetermined	Undetermined
4 LC50						2	0
4 LC51						2	0
4 LC52						2	0

FIGURE 8b(2), sheet 7 of 8

Template	Patient #	Amelogenin		170,487		167,989	
		Allele 1	Allele 2	Allele 1	Allele 2	Allele 1	Allele 2
	4 LC54					2	0
	4 LC55					2	0
	4 LC56					2	0
	4 LC57					1	1
	4 LC58					2	0
	4 LC59					1	1
	4 LC60					2	0
	4 LC61					2	0
	4 LC62					2	0
	4 LC63					2	0
	4 LC64					2	0
	4 LC65					2	0
	4 LC66					2	0
	4 LC67					1	1
	4 LC68					2	0
	4 LC69					2	0
	4 LC70					2	0
	4 LC71					2	0
	4 LC72					1	1
	4 LC73					2	0
	4 LC74					2	0
	4 LC75					2	0
	4 LC76					2	0
	4 LC77					No Amp	No Amp
	4 LC78					2	0
	4 LC79					1	1
	4 LC80					2	0
	4 LC81					Undetermined	Undetermined
	4 LC82					0	2
	4 LC83					2	0
	4 LC84					2	0
	4 LC85					2	0
	4 LC86					2	0
	4 LC88					2	0
	4 LC89					1	1
	4 LC90					2	0
	4 LC91					2	0
	4 LC92					2	0
	4 LC93					2	0
	4 LC94					2	0
	4 LC95					2	0
	4 LC96					1	1
	4 LC97					2	0
	4 LC98					2	0
	4 LC99					2	0
Number seen						102	12
Frequency						89.5%	10.5%

FIGURE 8b(2), sheet 8 of 8

	exon 1B 169812 (2589)		exon 1B 169823 (2600)		exon 1C 167950 (741)		exon 1C 167989 (780)		exon 1C 168054 (844)		Intron 3 243187 (1120+101)		exon 3 243055 (1089)		exon 6 423067 (1699)	
	C	G	A	G	C	G	T	G	C	G	C	T	C	T	T	C
	0.98	0.02	1.00	0.00	0.90	0.10	0.99	0.01	1.00	0.00	0.75	0.25	0.94	0.06	1.00	0.00
	Total count		Total count		Total count		Total count		Total count		Total count		Total count		Total count	
	177	3	180	0	171	19	191	1	192	0	118	40	173	11	186	0
% of allele	98.3%	1.7%	100.0%	0.0%	90.0%	10.0%	99.5%	0.5%	100.0%	0.0%	74.7%	25.3%	94.0%	6.0%	100.0%	0.0%
C21	1	1	2	0	2	0	2	0	2	0	2	0	2	0	2	0
C22	2	0	2	0	2	0	2	0	2	0	0	2	1	1	2	0
C23	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
C24	2	0	2	0	2	0	2	0	2	0	2	0	1	1	2	0
C25	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
C26	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
C27	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
C28	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
C29	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0
C30	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
C31					1	1	2	0	2	0	2	0	2	0	2	0
C32	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
C33					2	0	2	0	2	0	1	1	2	0	2	0
C34	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
C35	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0
C36					2	0	2	0	2	0	2	0	2	0	2	0
C37	2	0	2	0	2	0	2	0	2	0	1	1	1	1	2	0
C38	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
C39	2	0	2	0	0	0	2	0	2	0	2	0	2	0	2	0
C40	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0
C41	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
C42	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
C43	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
C44	2	0	2	0	2	0	2	0	2	0	1	1	1	1	2	0
C45	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0
C46	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
C47	2	0			2	0	2	0	2	0	2	0	2	0	2	0
C48	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
C49	2	0	2	0	2	0	2	0	2	0	1	1	1	1	2	0
C50	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
C51	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0
C52	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0
C53	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0
C54	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0
C55	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
C56	2	0	2	0	2	0	2	0	2	0	0	2	2	0	2	0
C57	2	0	2	0	1	1	2	0	2	0	1	1	2	0	2	0
C58	2	0	2	0	2	0	2	0	2	0	0	2	2	0	2	0
C59	2	0	2	0	1	1	2	0	2	0	1	1	2	0	2	0
C60	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0
C61	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
C62	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
C63	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
C64	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0
C65	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
C66	2	0	2	0	2	0	2	0	2	0	1	1	1	1	2	0
C67	2	0	2	0	1	1	2	0	2	0			2	0	2	0
C68	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
C69	2	0	2	0	2	0	2	0	2	0	0	2	1	1	2	0
C70	2	0	2	0	2	0	2	0	2	0			2	0	2	0
C71	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0
C72	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
C73	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
C74	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0
C75	2	0	2	0	2	0	2	0	2	0	0	2	2	0	2	0
C76	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
C77	2	0	2	0	2	0	2	0	2	0					2	0
C78	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
C79	2	0	2	0	1	1	2	0	2	0			2	0	2	0
C80	2	0	2	0	2	0	2	0	2	0	1	1	2	0	2	0

FIGURE 8c, sheet 1 of 6

	Intron 6 423149 (1729+52)		Intron 6 423163 (1729+66)		Intron 6 423220 (1729+123)		Intron 6 423232 (1729+135)		Intron 7 460564 (1914-136)		exon 8 460929 (2142)		exon 8 461199 (2412)		exon 8 461231 (2444)	
	G	T	A	G	G	A	C	G	G	A	G	A	T	C	A	G
	0.58	0.42	1.00	0.00	0.80	0.20	0.99	0.01	1.00	0.00	0.83	0.17	0.99	0.01	0.99	0.01
Total count	22	16	174	0	132	32	155	1	56	0	83	17	135	1	139	1
Total count		38		174		164		156		56		100		136		140
% of allele	57.9%	42.1%	100.0%	0.0%	80.5%	19.5%	99.4%	0.6%	100.0%	0.0%	83.0%	17.0%	99.3%	0.7%	99.3%	0.7%
C21			2	0	2	0	2	0			2	0	2	0	2	0
C22			2	0	1	1	2	0			1	1	2	0	2	0
C23			2	0	2	0	2	0			2	0	2	0	2	0
C24			2	0	2	0	2	0								
C25			2	0	2	0	2	0								
C26			2	0	1	1	2	0			2	0	2	0	2	0
C27			2	0	1	1	2	0					2	0	2	0
C28			2	0											2	0
C29			2	0	2	0	2	0					2	0		
C30			2	0	2	0	2	0			2	0	2	0	2	0
C31			2	0	2	0	2	0								
C32	0	2			2	0	2	0								
C33			2	0	1	1	2	0								
C34			2	0	1	1	2	0					2	0	2	
C35			2	0	2	0	2	0					2	0	2	
C36			2	0	2	0	2	0			2	0	2	0	2	0
C37			2	0	1	1	2	0			2	0	2	0	2	0
C38			2	0	2	0	2	0			2	0	2	0	2	0
C39	1	1	2	0	1	1	2	0								
C40			2	0	2	0	1	1								
C41	1	1	2	0	2	0	2	0								
C42			2	0	1	1	2	0					2	0	2	0
C43			2	0	1	1	2	0								
C44			2	0	2	0	2	0			2	0	2	0	2	0
C45			2	0	2	0	2	0					2	0	2	0
C46			2	0	1	1	2	0	2		1	1	2	0	2	0
C47			2	0	1	1	2	0	2		1	1	2	0	2	0
C48	1	1	2	0			2	0					2	0	2	0
C49			2	0	2	0	2	0					2	0	2	0
C50			2	0							0	2	2	0	2	0
C51			2	0	2	0	2	0					2	0	2	0
C52			2	0	2	0	2	0	2		2	0	2	0	2	0
C53			2	0	0	2	2	0	2		2	0	2	0	2	0
C54			2	0	1	1	2	0	2		2	0	2	0	2	0
C55	1	1	2	0	2	0	2	0								
C56	0	2			2	0	2	0					2	0	2	0
C57			2	0	2	0	2	0					2	0	2	0
C58			2	0	2	0	2	0								
C59			2	0	2	0	2	0					2	0	2	0
C60			2	0	2	0	2	0			2	0	2	0	2	0
C61			2	0	2	0	2	0	2		2	0	2	0	2	0
C62			2	0	2	0	2	0	2				2	0	2	0
C63	2	0	2	0	2	0	2	0			2	0	2	0	2	0
C64	1	1	2	0	2	0	2	0					2	0	2	0
C65	1	1	2	0	1	1	2	0								
C66			2	0	2	0			2		2	0	2	0	2	0
C67			2	0	1	1	2	0								
C68			2	0	0	2	2	0	2		1	1	2	0	1	1
C69	2	0	2	0	2	0	2	0					2	0	2	0
C70			2	0	2	0	2	0								
C71			2	0							2	0	2	0	2	0
C72	2	0	2	0	2	0	2	0	2		2	0	2	0	2	0
C73			2	0	1	1	2	0	2		1	1	2	0	2	0
C74	1	1			2	0	2	0					2	0	2	0
C75			2	0	1	1	2	0					2	0	2	0
C76			2	0	2	0			2		2	0	2	0	2	0
C77	1	1			2	0	2	0								
C78			2	0	0	2	2	0					2	0	2	0
C79			2	0	1	1	2	0								
C80	1	1	2	0	2	0	2	0					2	0	2	0

FIGURE 8c, sheet 2 of 6

	exon 8 461337 (2550)		exon 8 461520 (2733)		exon 8 461843 (3056)		exon 8 461968 (3181)		exon 8 462125 (3338)		exon 8 54404-AL078582 (54404)		exon 8 54460-AL07858 (54460)	
	A	C	C	G	G	A	T	C	C	T	G	A	C	A
	0.99	0.01	0.99	0.01	1.00	0.00	0.54	0.46	1.00	0.00	0.79	0.21	0.95	0.05
Total count	127	1	110	1	130	0	68	58	104	0	142	38	165	9
Total count	128		111		130		126		104		180		174	
% of allele	99.2%	0.8%	99.1%	0.9%	100.0%	0.0%	54.0%	46.0%	100.0%	0.0%	78.9%	21.1%	94.8%	5.2%
C21					2	0	1	1	2	0	2	0	2	0
C22	2	0	2	0	2	0	0	2			2	0	2	0
C23	2	0	2	0	2	0	1	1	2	0	2	0	2	0
C24											2	0	2	0
C25											1	1	2	0
C26	2	0	2	0	2	0	2	0	2	0	2	0	2	0
C27	2	0	2	0	2	0	1	1			2	0	2	0
C28					2	0	0	2						
C29											2	0	2	0
C30	2	0			2	0	0	2			2	0	2	0
C31											2	0	2	0
C32											1	1	1	1
C33											1	1	2	0
C34	2	0									2	0	2	0
C35	2	0	2	0	2	0	1	1						
C36	2	0	1	1	2	0	0	2	2	0				
C37	2	0	2	0	2	0	2	0	2	0	1	1	2	0
C38	2	0	2	0	2	0	1	1	2	0	1	1	1	1
C39											2	0	2	0
C40											2	0	2	0
C41											2	0	2	0
C42	2	0			2	0					1	1	2	0
C43														
C44	2	0	2	0	2	0	1	1	2	0				
C45	2	0	2	0	2	0	1	1	2	0	2	0	1	1
C46	2	0	2	0	2	0	1	1	2	0				
C47	2	0	2	0	2	0	0	2	2	0	2	0	2	0
C48	2	0	2	0	2	0	1	1	2	0	2	0	2	0
C49	2	0	2	0	2	0	0	2	2	0	2	0	2	0
C50	2	0	2	0	2	0	0	2	2	0	2	0	2	0
C51	2	0	2	0	2	0	0	2			2	0	2	0
C52	2	0	2	0	2	0	1	1			2	0	2	0
C53	2	0	2	0	2	0	2	0	2	0	2	0	2	0
C54	2	0	2	0	2	0	2	0	2	0	1	1	2	0
C55											1	1	2	0
C56	2	0	2	0	2	0	1	1	2	0	2	0	2	0
C57	2	0	2	0	2	0	1	1	2	0	2	0		
C58											2	0	0	2
C59	1	1	2	0	2	0	2	0	2	0	2	0	2	0
C60	2	0	2	0							1	1	2	0
C61	2	0	2	0	2	0	2	0	2	0	2	0		
C62	2	0	2	0	2	0	1	1	2	0	2	0	2	0
C63	2	0	2	0	2	0	2	0	2	0	1	1	2	0
C64	2	0	2	0	2	0	2	0	2	0	1	1	2	0
C65											0	2	2	0
C66	2	0	2	0	2	0	2	0	2	0	2	0	1	1
C67											0	2	2	0
C68	2	0	2	0	2		1	1	2	0	2	0	2	0
C69	2	0	2	0	2	0	2	0	2	0	1	1	2	0
C70											2	0	2	0
C71	2	0	2	0	2	0	2	0	2	0	0	2	2	0
C72	2	0	2	0	2	0	0	2	2	0	2	0	2	0
C73	2	0	2	0	2	0	1	1	2	0	1	1	2	0
C74	2	0	2	0	2	0	1	1			1	1	2	0
C75	2	0	1 ?		2	0	1	1	2	0	1	1	2	0
C76	2	0	2	0	2	0	2	0	2	0	2	0	2	0
C77											2	0	2	0
C78	2	0	2	0	2	0	1	1	2	0	1	1	2	0
C79											1	1	2	0
C80	2	0	2	0	2	0	1	1	2	0	1	1	2	0

FIGURE 8c, sheet 3 of 6

	exon 1B 169812 (2589)		exon 1B 169823 (2600)		exon 1C 167950 (741)		exon 1C 167988 (780)		exon 1C 168054 (844)		Intron 3 243187 (1120+101)		exon 3 243055 (1089)		exon 6 423067 (1699)	
	C	G	A	G	C	G	T	G	C	G	C	T	C	T	T	C
	0.98	0.02	1.00	0.00	0.90	0.10	0.99	0.01	1.00	0.00	0.75	0.25	0.94	0.06	1.00	0.00
Total count	177	3	180	0	171	19	191	1	192	0	118	40	173	11	186	0
Total count		180		180		190		192		192		158		184		186
% of allele	98.3%	1.7%	100.0%	0.0%	90.0%	10.0%	99.5%	0.5%	100.0%	0.0%	74.7%	25.3%	94.0%	6.0%	100.0%	0.0%
C81	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
C82	2	0	2	0	0	2	2	0	2	0	2	0	2	0	2	0
C83	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
C84	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
C85	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
C86	2	0	2	0	2	0	2	0	2	0	0	2	1	1	2	0
C88	2	0	2	0	1	1	2	0	2	0					2	0
C89	2	0	2	0	1	1	2	0	2	0			2	0	2	0
C90	2	0	2	0	2	0	2	0	2	0			2	0	2	0
C91	2	0	2	0	2	0	2	0	2	0			2	0	2	0
C92	0	2	2	0	2	0	2	0	2	0			2	0	2	0
C93	2	0	2	0	2	0	2	0	2	0					2	0
C94	2	0	2	0	2	0	2	0	2	0			2	0	2	0
C95	2	0	2	0	2	0	2	0	2	0			2	0	2	0
C96					1	1	2	0	2	0			0	2	2	0
C97					2	0	2	0	2	0			2	0	2	0
C98	2	0	2	0	2	0	2	0	2	0			2	0	2	0
C99	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
C100	2	0	2	0	1	1	2	0	2	0	2	0	2	0	2	0
C101	2	0	2	0	2	0	2	0	2	0	0	2	2	0		
C102	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
C103	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
C104	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
C105	2	0	2	0	2	0	2	0	2	0	0	2	2	0	2	0
C106	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
C107	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
C108	2	0	2	0	1	1	2	0	2	0	0	2	2	0	2	0
C109	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
C110	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
C111	2	0	2	0	2	0	1	1	2	0						
C112	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
C113	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
C114			2	0	1	1	2	0	2	0	0	2	1	1	2	0
C115	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
C117	2	0	2	0	2	0	2	0	2	0			2	0		
C118	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0
	90	90	90	90	96	96	96	96	96	96	79	79	92	92	93	93

FIGURE 8c, sheet 4 of 6

	Intron 6 423149 (1729+52)		Intron 6 423163 (1729+66)		Intron 6 423220 (1729+123)		Intron 6 423232 (1729+135)		Intron 7 460564 (1914-136)		Exon 8 460929 (2142)		Exon 8 461199 (2412)		Exon 8 461231 (2444)	
	G	T	A	G	G	A	C	G	G	A	G	A	T	C	A	G
	0.58	0.42	1.00	0.00	0.80	0.20	0.99	0.01	1.00	0.00	0.83	0.17	0.99	0.01	0.99	0.01
Total count	22	16	174	0	132	32	155	1	56	0	83	17	135	1	139	1
Total count		38		174		164		156		56		100		136		140
% of allele	57.9%	42.1%	100.0%	0.0%	80.5%	19.5%	99.4%	0.6%	100.0%	0.0%	83.0%	17.0%	99.3%	0.7%	99.3%	0.7%
C81			2	0									2	0	2	0
C82	1	1	2	0	2	0	2	0					2	0	2	0
C83			2	0	1	1	2	0								
C84			2	0	0	2	2	0			1	1	2	0	2	0
C85			2	0	2	0			2		2	0	2	0	2	0
C86			2	0	2	0	2	0	2		2	0	2	0	2	0
C88			2	0	2	0	2	0	2		1	1	2	0	2	0
C89			2	0	1	1	2	0			1	1	2	0	2	0
C90			2	0	1	1										
C91			2	0	2	0	2	0			2	0	2	0	2	0
C92	2	0	2	0	2	0	2	0	2		1	1	2	0	2	0
C93			2	0	2	0	2	0								
C94			2	0	2	0	2	0					2	0	2	0
C95			2	0												
C96			2	0	2	0	2	0			2	0			2	0
C97			2	0	2	0	2	0								
C98			2	0												
C99			2	0							2	0	2	0	2	0
C100			2	0	2	0	2	0			2	0	2	0	2	0
C101									2		1	1	2	0	2	0
C102	1	1			1	1	2	0	2		2	0	2	0	2	0
C103			2	0	2	0	2	0	2		2	0	1	1	2	0
C104			2	0	1	1	2	0	2		2	0	2	0	2	0
C105	2	0			1	1	2	0	2		2	0	2	0	2	0
C106			2	0												
C107	1	1			2	0	2	0			2	0	2	0	2	0
C108			2	0	2	0	2	0	2		2	0	2	0	2	0
C109			2	0	2	0	2	0	2		2	0	2	0	2	0
C110			2	0	1	1	2	0	2		1	1	2	0	2	0
C111									2		2	0				
C112			2	0					2		2	0	2	0	2	0
C113			2	0							2	0				
C114			2	0							1	1			2	0
C115			2	0	2	0	2	0	2		0	2	2	0	2	0
C117			2	0	2	0	2	0			1	1	2	0	2	0
C118			2	0	2	0			2		2	0	2	0	2	0
			87	87	82	82	78	78	28	0	50	50	68	68	70	68

FIGURE 8c, sheet 5 of 6

	exon 8 461337 (2550)		exon 8 461520 (2733)		exon 8 461843 (3056)		exon 8 461968 (3181)		exon 8 462125 (3338)		exon 8 54404-AL078582 (54404)		exon 8 54460-AL07858 (54460)	
	A	C	C	G	G	A	T	C	C	T	G	A	C	A
	0.99	0.01	0.99	0.01	1.00	0.00	0.54	0.46	1.00	0.00	0.79	0.21	0.95	0.05
Total count	127	1	110	1	130	0	68	58	104	0	142	38	165	9
Total count	128		111		130		126		104		180		174	
% of allele	99.2%	0.8%	99.1%	0.9%	100.0%	0.0%	54.0%	46.0%	100.0%	0.0%	78.9%	21.1%	94.8%	5.2%
C81	2	0	2	0	2	0	1	1	2	0	1	1	2	0
C82	2	0	2	0	2	0			2	0	2	0	2	0
C83											2	0	2	0
C84	2	0	2	0	2	0	0	2	2	0	2	0	2	0
C85	2	0	2	0	2	0	1	1	2	0	2	0	2	0
C86	2	0	2	0	2	0	2	0	2	0	2	0	1	1
C88	2	0	2	0	2	0	1	1	2	0	2	0	1	1
C89	2	0	2	0	2	0	1	1	2	0	1	1	2	0
C90											2	0	2	0
C91	2	0	2	0	2	0	1	1	2	0	2	0	2	0
C92	2	0	2	0	2	0	1	1	2	0	2	0	2	0
C93											2	0	2	0
C94	2	0	2	0							2	0		
C95											2	0	2	0
C96											2	0	2	0
C97											2	0	2	0
C98											2	0	2	0
C99	2	0			2	0	2	0			0	2	2	0
C100	2	0	2	0	2	0	0	2			2	0	2	0
C101	2	0	2	0	2	0	1	1	2	0	1	1	2	0
C102	2	0	2	0	2	0	2	0	2	0	1	1	2	0
C103					2	0	2	0	2	0	1	1	2	0
C104	2	0	2	0	2	0	2	0	2	0	1	1	2	0
C105	2	0			2	0	2	0	2	0	0	2	2	0
C106											2	0	2	0
C107	2	0	2	0	2	0	1	1	2	0	2	0	2	0
C108	2	0			2	0	2	0	2	0	1	1	2	0
C109	2	0	2	0	2	0	0	2	2	0	2	0	2	0
C110	2	0			2	0	0	2	2	0	2	0	2	0
C111											1	1	2	0
C112	2	0	2	0	2	0	1	1			0	2	2	0
C113											2	0	2	0
C114					2	0	1	1	2	0	2	0	2	0
C115	2	0	2	0	2	0	0	2	2	0	2	0	2	0
C117					2	0	1	1			2	0	2	0
C118	2	0									2	0	1	1
	64	64	56	55	65	64	63	63			90	90	87	87

FIGURE 8c, sheet 6 of 6

ER 1 Exons with SNPs v2.0

ER1 Exon 1G (18941-19032 of SEQ ID NO:1)

TTGCTACCTGCTACACCACATTTTCACTAGTATGTGATTTATTCACAAACAACAGTATTGGCCAAACA
TTTTCCTCACTGTGAAGTGCACATTTTGACATCCTTTAGAAAAATTACTGACGGTTTGGAGCAGATTGTT
CTGTGCTTTCTTTTCAGTCAGCATAAATTTCCGAAAGCAGAGATGACTCTTCCAGACTTGCTACCAATGC
TTGAACAACACTGTGTAAGCTTAGTCCAAAAAATATTGATTAAATAGATTTTATTTGGTAGATTCTAA
GGTTCCAAGCagtcagagaaataatcgagagccctcaaatatctccaaatctgataccaatccttttga
ttgtgaattatattctgtagctaccaaagaagTAAGTTTATTTTCTACTCTATTAACCTTTCCCTT
GGACAACCTGAATATTAAGATGACTATGTAAGGAGTTATCAGACCAAGCCTCACACATCAGGATAAAAG
CACATGCCATAGAAAGAACATTTGTGTCTCAAAAGGTGATACCAAGACAAGGCTGTGGGATATATATGGG

Exon ER1 1F (52818-52940 of SEQ ID NO:1)

TTCCAACTCCACATGCCCTGTCTAGACTTCAAGCTTTATACGAATAAAGAGAAAAATCGGCTGGATGGCAT
AAAAAATATTTCAGGCAGATTAAACACATGATTTACCTCTTCTTGAACATCCATCTTAATGGAAGTGCTAA
GAAAGTTAGATTCGGCCCTGGCTTGGCAAAAGCAAGGCCACCCCTCTATTTTTCATGAGATTTT
CCAATCCTAGTCAAAATGGTGGTCTAGTTCTTTATTTTGGATTACTGCATTTCCATAATTTCATGGTCAT
AACAGCCTCCTGTCTACCGACTCAGAACGGATTTTACCaaaactgaaatgcaggctccatgctcagaaag
ctctttaacaggctcgaaaaggctccatgCtctcttctcctgcccattctatagcataagaagacagtctct
gagtataaatcttctcttcaaGTAGGTACTCCTATTTCTCTCAATTTATTTTTCCTTTTGTATATAAT
GTGCTACTGTTTACAAGCATATTGTAACTTCAGAGCTTACCCTCTCATCTTTAAAAAATGTTCAATTTTTT
GTCTTTCTGCTCCAAGGATATTTGC

52877 C/A 2, 3(N);

Exon ER1 1E (64150-64280 of SEQ ID NO:1)

AGCCAAACATTGATTTCTCAGTGCCTATTGATAAGTGAGACTACTTTTCTTTTAAACAGCCTTATTCAC
TTAAGTGGGAGTCAAACTAGCTTTAAATTAAGGAAATCTGTAGAAATCACCCACATCTCCCTTTCCTTCT
CTGTTAAAAAACAAGgaagaagaaactaggaaggagtaagcacaaaagatcttccacattctccg9
gactgcggtaccaaataatcagcacagcactcttgaaaaaggatgtagattttaatctgaaactttgaacc
atcactgagGTATGTGTGAACATACTAGTTTCTCTCTCCTGACTTTGTCCGTAAATTGATAAG
ATCTAATTTGGTCATCAGTTTGGAGAACGATTTTTCATTTAATTTCTTTCATTATCAAGTGTGATTGTC
AGGGGCTTAGCAGTACACCTACTATCTGATGGGCACTCTACATGCCGTTGCTT

56346 A/G 2, 3(N, I, A, S)

FIGURE 9, sheet 1 of 7

Figure 9, sheet 2 of 7

Exon ER1 1D (166228-166322 of SEQ ID NO:1)

ATGGGTCTCAAAGGGAGTGGCCGAAATGCAATGGAAAAAGAGAGATTGTAAAGCTAGAAGGCTTAGGAAT
TGCCCTCTTGATTAGGTGTGAAGGCAAGGAAATCAGCCCTCGAAGAAGACAGTGAGATTTTAATCTGG
GTGGCTGGAGAGACAGTGTATGCTGGGCACAGACACGGGGAAGTTGAGAGGAACACCATGTTTGAGAAATGG
TGACTCATATTTGAACAAGCCtgaatgcccagcagaccgctgaaaaagtgggctggagacacattcaa
cggaggagccagatcaatctttacccttctcacctgagagagccaGTAAGTCACGGCTGGAACGTGTGT
GTCCAGCAGGAGAGGGTAGGGAGGAAGCCAAAGAGAGCTGGGAGCCCAAGAGTGAAATTTTGGCCAAAGG
CAGAAGAGGAAAGTCGGCGTAGCACAGTATACTTTCCACCCATGCTCACCAAGCCACGGGACAAAGGCTC

Exon ER1 1C (168002-168120 of SEQ ID NO:1)

TTTCCAGCCTCCAAAGGTAGGGGCAAAAGGGCTGGGGTTTCTCCTCCCCAGTACAGCTTTTCTCTGGCTGT
GCCACACTGCTCCCTGTGAGCAGACAGCAAGTCTCCCCCTCACTCCCCACTGCCATTTCATCCAGCGCTGTG
CAGTAGCCCAAGCTGCGTGTCTGCCGGAGGGGTGCCAAGTGCCCTACTGGCTGCTTCCCGAATCC 167950 C/G 2
CTGCCATTCCACGCACAACAACATCCACACACTCTCTCTGCTAGttcacacactgagccactcgcacat 167989 T/G 2, 3(all)
gcgagcacattccttccttccttctcaCtctctcgcccttgacttctacaagcccatggaacatttctg 168054 C/G 2
gaaagacgttcttgatccagcagggTAGGCTTGTTTTGATTCTCTCTCTGTAGCTTTAGCATTTTGAGA
AAGCAACTTACCTTTCTGGCTAGTGTCTGTATCCTAGCAGGGAGATGAGGATTGCTGTTCTCCATGGGGG

ER1 Exon 1B (169543-169825 of SEQ ID NO:1 of assembled BAC-flanked by red primers)
ER1 Exon 1A (169867-170678 of SEQ ID NO:1 of assembled BAC-flanked by black primers)

TGTGGCTGGCTGCGTATGCAACCGCACACCCCATTTCTATCTGCCCTATCTCGGTTACAGTGTAGTCTCTCC
CCAGGGTCATCTATGTACACACTACGTATTTCTAGCCAACGAGGAGGGGAATCAAAACAGAAAGAGAGA
CAAACAGAGATATATCGGAGTCTGGCACGGGCACATAaggcagcacattagagaaagcccgccctgga
tccgtcttgcggtttattttaagcccagttctccctgggccaacttttagcagatcctcgtgcgccccg
ccccctggcgtgaaactcagcctctatccagcagCgacgacaagtAaaGTAAAGTTCAGGGAAGCTGCT 169812 C/G 2, 3(A,S); 169823 A/G 2
CTTTGGGATCGTCCAAATCgagttgtgcctggagtgtgtttaagccaatgtcagggcaaggcaacagt
ccctggccgtcctccagcacctttgtaatgcataatgagctcgggagaccagtagttaaagtggaggcccc
gggagcccaggagtggcggagggttcgtcctgggagctgcacttgctccgtcgggtcgccccgcttc
accggacccgcagGctcccgggcagggccgggagagctcgcgtgtcggcgggacatcgctgcgtc
gccttaacctcgggtgtgtctcttttccaggtggcccgccggttctgagccttctgccctgcgggga
cacggtctgcacctgccccgcggccacggaccatgacctgacctccacaccaaagcatcCgggatggc
cctactgcatcagatoccaaagggaacgagctggagccccctgaaccgtccgcagctcaagatccccctggag
cgccccctgggcgaggtgtacctggacagcagcAagcccccggtgtacaaactacccgagggcgccgct
acgagttcaacgcgcggccgcgccaacgcgcaggtctacggtcagacccggcctccctacggcccccg
gtctgaggctgcGgcgttcgggtccggtccaaacggcctgggggtttcccccaactcaacagcgtgtctccgagc
ccgctgatgctactgcaccccgccgcgcagctgtgccttctcgtcagcccccaacgcgcagcaggtgccct
actacctggagaacgagccagcggctacacggtgcgcgagggccccgcggcatctcacagGTACCC
GCGCCCGCGCCCGTCGGGGTGGCGCCCGCCGCGCAGGAGGGAGGGAGGGAGGGAGGGAGGGAGGGGA

FIGURE 9, sheet 2 of 7

GAGCCTAGGGAGCTGCGGGAGCCGGGACGCCGACCCGAGGGTGCGCGCAGGGAGCCCGGGGCGCGCG
GCCAGCCCGGGGTTCTGCGTGACGCCCGCGCTGCGTTCAGAGTCAAGTCTCTCGCCGGGCAGCTGAA
AAAACGTACTCTCCACCCACTTACCCTCCGTGCGAGAGGCAGACCCGAAAGCCCGGGCTTCCTAACAAA

ER1 Exon 2 (204912-205102 of SEQ ID NO:1)

CAAGTTTGCAATAAACAAATTTCCCCCTCAAGGTTAATAATAATAGGCAACACACCTTTTGGCTGCAACAGACGGC
AAGAGGTAATGAAAGATTAGCTTACATTATGATTCAATTAATTTCAAAATGTCAGGATAAAGTGGATCTGCT
GCATCTCCAGAGAGTGCAATGTTTGGCTTTTCTAATGTTAAATGGATTACTGTTTTCCTCCCCAGGCC
aaattcagataaatcgacgccagggtggcagagaaagattggccagtaaccaatgacaagggaagtatggct
atggaatctgccaaaggagactcgtaactgtgcagtgtgcaatgactatgcttcaggctaccattatggag
tctggtcctgtgagggctgcaaggccttctcaagagaagtattcaagGTAATAGTGTGTTGAAAACGAC
TTCTATTTTGTATCCTATGAGCAGATCCTAAGAGCCAAAGCGACTGAGGAAGGAAGACATAGAAATCAGCC
ATTTGTACAAAACATGAATCCCTAGTAGTCCACTAGTATCTTTGGTAGAAACATGGAGAAGAGACAGGA
TCTCAGGAGAAGGAGTTGACACATGGCAGGCAGCTGAGGCTGAGTAATTCCGCTTCCTTCCTTTGGCAA
GACTCAATCAGTCTTGAGCAACTCTACAGAAAGAAATCCACTAGCTGGATCTCTGAGGAAAAAGAAATGT

ER1 Exon 3 (242970-243086 of SEQ ID NO:1)

ACACCACCATACCCAGGTTTTTTTTTGTAATTTTAGTAGAGACGGGGTTTCACCATGTTGGTCAGGCTGGT
CTTGAACTCCTGACGTCGTGATCCACCTGCCCTGCCCTCCCAAAGTTCTGGGATTACAGGCATGAGCCAC
CGTGCCCGGCCCATGAGAGGTTTTGTTTGCACTTCAAGAAGACAGAAAAAGCAGCAGGCTGGGGAGC
AACATAGTAAGGCTGAGGAAGTGATAGGAAAAACAGCCTCCAAAAGGTTTCCCTGTAGATTCTGACTGGCT
AAGTTTCCTGAAATAATATTAATTCTGTCTCTTGTCTTTTAATAGgacataaacgactatatgtgtccagc
caccaaaccagtgcaccattgataaaaacaggaggaagactgccaggcctgccggctccgTaaatgctac
gaagtgggaatgatgaaaagtgTAGGTACATCTCTCCAGGGCCCTTGGGGATGGCCCTGGCCACCGC
CCAGTGCTGGCTCTACCCATTGGAATAACACCATGGGAATTTGTGTTTTTCTTTTAATTGTTTTTT
TCTATTTCTTATTTTCTTTTGCAACAAAAAGTATTTTCATAATCCATTTTATAAAAAAGGTGGAAAGTGC
TGGAACTGGAA

243055 C/T 2,6

243187 T/C 2,3(all)

ER1 Exon 4 (306168-306503 of SEQ ID NO:1)

TATAACACCTGTTACACACACACCCCTACCTAGTGTCGGAATCAGTTTGATGGGCTCACCAAAGCCT
ACTGTTCAATTTTCAGGAGTTTTGTAAAGCCATTTGATGTCAGACAAAGTGGCCTGAAGTTTGTATGGTGG
TGGTATTTACACCATGAAAAATTGGCATGTTATGGTGGTAGTATTTACACCATGAAAACGCTACAAATAG
AAATCCTTTTCTCTCTCTTGGAGAGCCACTTGTTGAACACTTACCAGCTCACCTGTGCTTGAAAGTAT
TTCTTCAAAATAAAATGAAAGCTGGTTAGCTTTTGAAAATTTTTTGATATAAAGTTTACACGGGAAAAAAT

FIGURE 9, sheet 3 of 7

AAACTAAATTTTTTTTCCACCTGTGTTTTAGggatacgaaaagaccgaaagaggagggaatgttgaa
acacaagcgcagagagatgatggggagggcaggggtgaagtggggtctgctggagacatgagagctgcc
aaccttggccaagcccGctcatgatcaaacgctctaagaagaacagcctggccttgccctgacggccg 306292 G/A 2
accagatggtcagtcgcttgttgatgctgagccccCatactctattccgagtatgatcctaccagacc 306382 C/G 2,3(C,I,S),6
cttcagtgaagcttcgatgagggcttactgaccaacctggcagacagggagctggttcacatgatcaac
tgggcgaagaggggtgccagGTAAGAAATGCGAAGCGCAGCTTTTAAGAGTCAATAGCTTTTCAAGAACTTG
TTGTGATGTCAATGGGAGAAATAGTGGGGAATAAGAAAGCAATAAACATGTTATGTAATTGGTTCAAGGTT
ACAGGAGATGTGTTTCATTTTCAGTATCAATACACTGTAATTTTCCAGGAGATTAGGAAATAATATTTTAA
AATCAGAAATCTAGAAGACTGAAATTCCTTAAATTTGACATAAATTTATTTTAACCCATCTCATTTACCAAAA
AGATTTAGGGTGGACACTACATGTTAAACTATTTAATAGTGTATGTTACAGTAGCAGAAACTTTTAAAC
ACTAAATGAACTACAAAAGTTTGTAATATTAATGACCTTTTGTGAAAACATCTCAATTATTAAATCAAACG

ER1 Exon 5 (373640-373778 of SEQ ID NO:1)

GTAATGATTGGAGAAAGCTTTAATCTCCTAGTTCACCATTAGAAAAACAAGAACACATTTTGGTGGTTATT
ACCGAAGTAATCATAATGTCACCTTTTTCATCTGACTCATATCCCAAGTGATTTATTTATATATG
GAGTTTTCTGAGTCTTTCTTTACATATTACAAAAAAGAGTGTGATTTAGGGACGGAAGCAAGAAATAA
AAATTTAGTGACTTTCATTTCTGCTGTGCCCAATTCCTATTGGCATAAAGCAAGTAATTTAAATTTCT
TAGCACCTTAGCATCTTCTACTCAAAACAGAAATGAGGAACAGTCACAGGTTACTATTATAGCTGTCTAAG
TAGAAGGCACACAAGTTTTCACACTGAGTATAACACTTTATAGAAAGCTAAGTGTGTTGCTCAAGTTGGT
ACATTTCTGTAGATGTGACACTATGGCACTAAGAACTTAATGCCACATTGAAATTTCATTGAGATAGCTA
GACTTTAAAAATAATTACTTGACTTCACTATAAAGTATGTTTCGTATTGCAATTTACTCCATCTAGTAGAAA
ATAGACCTTGTGAGTTCAAATCCCTGTGTCATTAATTTCAACAGTAATGAGTCTTTTTCATTTTGAGTCAG
CAGGGTTTTCTTGCTTGTGTTTCAGgcttgtggattgacctccatgatcaggtccacctctagaat 5 (227106-227244)
gtgcctggctagagatcctgatgattggctcgtcgtggcgctccatggagcaccagggaaagctactgtt
tgctCCTAACTTGCTCTTGGACAGGTAAGTGACCTGGCTGTAGCTTAGGAGTAGCATGTTCTTTACGATC
ATAGTTCAATTCATGAAACTATTTTATTCATCTCTCGGTGAAGCTTCAGAGAACTTTATTAGGTATGTTTA
CTTAACAAAAGAGTGCATTTGGGGTGATGAAGCCTAGTCAAAATTCACAGAAAGCTAAGGATAACTTTCTG
CTAGACATTTACCTCAGAAGAAATTCATATTATTTCTAATACACACACACACACACACACACACTCA
CACTCTCTCTCTCTCTGTGTCATTATGAATGGTAAATTTCTAACTCCATCTTCAACTTGATCATA
TAAAAATTATAATAACCTCTCTTTAATTAAAAATCTGTTGTTGCTTCTTGTAACATCCATACCACAATAGCC
TATTCATTTTCTCTCCAATTTTCCCATCCGTAAAAATGAAGAAATTTGACCAGAGTCTGAAAGGTCACAT
TCAGTCGACAAAATTCATTTTCATGTTCAAAATATGTTACCTTCTTTAACATACCATTCCTGGGTTGCCCT
GGAATGTGGGTCCCATTGTTTTTTTTTTCAGTCATTGCTTAGAGTCATAGAATTTAGATATTACTCAA
TAGCAGCTGCCACTGATAGAGTCTCCACCTGCACCAGCTGTGATGCTAAACACTTTACATATATATCT
CATTTAATCATCACCGGACTCCTAGGAGGCAGGAATGTCATCATCCATGTTTACCAGAAAGGAACTAA
ATCTCAGAGACATCCTGCTACTTGCAAAAAAGAGGAAAGCTCACTAAATGGTGGAGCCAGAGTTCAAATTC
AAGATCTTTCTGGCTCCGGTATGCTCTGTTACCTCCTGTGCTGGGCACATGGTCTTCCCCACTCTCATGTT

FIGURE 9, sheet 4 of 7

ER1 Exon 6 (422964-423097 of SEQ ID NO:1)

ATTGTAGTTGTTCTTGTACTTCAAAGCACTACAAAACACAAACCATCAGGACTTGTACATTATTTGAAG
GCTATGAGCATCTTCAGCCGAGGCCCTGTTTTTATTTCCAGAACTACCACATTTGTTTAGAATATAGTAGC
AGATCAATATACGTGTAATTAGATAAAATCGTTTACCAGATCTTGATCATTTTCAATTACCATAGGTTGA
AGAACTCCATATTTAAACATGGCAGACTTGAGGACTGAACTACCTACCTCTTCTAAAGAAATTGAAATGAGA
ATGTTTTATTGATGGGAAATATTTTTTGTGTTTGCCTTCTAGAAATTCAAATGAATGTTTCATATTCATG
AAGACAAATGGCTGATAGTTTTTTGTTAAAGATTTAGAACCAGTGGATTTTATGAATGTGAACCCTTTCA
TGTCTTGTGGAAGATTTTCTGTTTTTAAATCTTTTATTTATTTATTTTGTCTATGTTTTCATAGg 6 (276430-276563)
aaccagggaaaatgtgtagagggcatggtggagatcttcgacatgctggtacatcatctcgggtcc
gcatgatgaatctgcagggagagagttgtgtgcctcaaatctatttctgcttaattctgGTGAGTT
GATAACACAAGATAACTCAATGCTGGATGAAATGTTTATTTGTAGTTTTTCAACCAGATACGATCTACCCA 423149T/G 2,3(N,C,I,A); 423163 A/G 2,3(N,C,I,A)
CTCCAAAGGCATAATGTCAATAAATAGAAAACACTACTGACACACATTTTAAAAATA**AC**CTACCAACATTG 423220 G/A 2,3(N,C,I,A); 423232 C/G 2
CAGATTCCTTATA**AA**GGTAGAACCATGCTAGCCAAATAGACACATAGAAAAATTGTAATTTGGCATTGAAT 423258 A/G 2,3(N,C,I,A)
CAAATGGCCTTTGAGCTAAAAATTTTGTATGCTTTCACAGATAGGATGTTTTTATTCAAATGGTACATGT
ATATAGACATATGTTAGTTGATAGTTATATTATGCTGAAAAATAAGTAGACCAAGTAATTTCTGTTAAGAA

ER1 Exon 7 (456354-456537 of SEQ ID NO:1)

GGGTCCAGAGCATCCCCATTTGCTAGACTACTGCTGAGGAAGGCACCTGGCTCATTTGTACATCCCCATG
AACACTCTGGGTCCTCTAGACCTCATCCTCTTTTGAGCTTCTCTCTCTCACTCTCTCTGCGCATTCAGg
agtgtacacatttctgtccagcaccctgaagtctctggaagagaaggaccatataccaccgagtccctggac
aagatcacagacactttgatccacctgatggccaaaggcctgacctgcagcagcagcaccagcggc
tgggccagctcctcatcctctcccacatcaggcacatgagTGAGGCATCTGTGGCTTCCTACAGG
AGAGACATAAAGAAAAACATGCCCCCAAACCTATGTGACAGCTGGCCGGAAAGGACTGGTGCTGCATATG
GAGAGTGCACTTGTGACAGTTCTTGGCATAGAAATAAGCATAAATGCTATAGGAGGACAGAAAGAGAGGTT
TTTAAATCTGCGAGGGTCCACAGGGCAAGTGTCCAGAGAAGGCATAGAGGAAGCGTACTTACGCTTGGTTT

ER1 Exon 8 (460701-465237 of SEQ ID NO:1)

TCAAACTAGATAAATAGTTGTTCTCCTCCCCACCCCGCCACCACTAGTGTGTGGGGCAGCAGATTGTG
GCTAGTGGAGGAGAGCAG**AGGAGGAGAGTAGGAAAGAGAA**TGCCATTTGCCATACATTTCCCTCTGCCC
ATTTCCC**G**CTGCCCATTTCCCCCTTGTTTTCTGAACGTGAACTGAGCTCTGGGCACCTGTTTAGGCCCT
AGCAGGGGACAGGATAAAGCCTGCTTCTTAGGAAATTCGCACTGAGGGTGTGAGTGTGTCAC**G**TGTG
TTTGAGGGCGGAGAAATAAACACAAATAAAAGAGAAATTCAGGCAGTGATAAGAGTGTGAGAA
AAAC**A**GAAACGGTGTGAAAGAGGAAGGCTGAGCCTGCAGAGGCTTGAGGCTGCTGCCACTGGGTAGCGGTA
GGCCTTCCGAGGAGCGGCATTTGAGACCCGGAGGAAGTTTCATCCCAAGTAGGAACAGCAAGTGT
AGGTCCCC**C**TAAGTCTTGGGGGAGCTTAGTTCCTTTAAGGGCAGCACAAAAATCAGTGTGGCTCCGGAGAG
CACATTAGGGGAGAGAGCAGGAAGAGCTTGAGACATGGATGGAAGCTGGACCAAGTTGGGCCTTGTTGA
ACATGGAAGGCATTTAGATCGTATTCTGAGTTAAATGGGAAGTGACGTGAGAGATTTAACAATGGAGCG
TCTTGAACTGCTTTACTCATTTAAAAATACCCACTCCTGCTTGGCTGAATATCTCATGTTGTTT

Forward primer - Coriell
459706 G/C 3 (I)
459832 G/A 3 (S)

459913 A/G 3 (N, I)
460024 C/G 3 (all)
460056 C/T 3 (I)

FIGURE 9, sheet 5 of 7

AGCTTTGGCGATCCTATTGAATGCATTTAGGTCCTATTGGAGGGAATAGGATCTCATTTGAGGCCACG
GAGGTCCATGGAAGTCACCTGCATAGCAAAATACCTGAAAGTGGCTGCAGGGAGAGTGTGAGGGTGGGAC
CGCCCTGGTAGGAGGTGGAATAATGAAAAACACACGGCCATGAGTTCAGATTAGGGCTTCTGAAAGCCCT
CAGCTTTCCCAGCTCCCATCCTAAAGTGGGTCTTTAAACAGGAAGAAAGATTGCTAAGTGTCTTTG
GAGTTCCTCTTCCCTTCCCTTCTAGGGATTTCAGCACTCCTGGGCTCGGGTTGGCTCTAAAAGTAGTCCT
TTCGTGTCTTCCACCTACAGTaacaaggcatggagcatctgtacagcatgaagtgcaagaacgtggt
gcccctctatgacctgctgctggagatgctggacgcccaccgcctacatgcgccactagccgtggaggg
gcatccgtggaggagacggaccaagccacttggccactgcgggctctacttcatcgcattccttgcaaa
agtattacatcacgggggagggcagaggggttccctgccacGgtctgagagctccctggctcccacacggt
tcagataatccctgctgcattttaccctcatcatgcaaccactttagccaaattctgtctcctgcatacac
tccggcatgcatccaacaccaatggctttctagatgagtggccaattcattgcttgctcagttcttagtg
gcacatcttctgtcttctgttgggaacagccaaagggatccaaggctaaatctttgtaacagctctctt
tcccccttgctatgttactaaagcgtgaggaTtccccgtagctcttcacagctgaactcagctctAtggggtg
gggtcagataaactctgtgcatttaagctacttgtagagacccagccctggagagtagacattttgcctc
tgataagcaccttttaaagtggctctaaGAtaaagccacagcaaaagaatttaaagtggctcctttaattgg
tgacttggagaaaagctaggtcaagggtttattatagcacccctcttgattcctatggcaatgcacacctt
tatgaaagtggtagacaccttaaagcttttataatgactgtagcagagtatctggtgattgtcaattcattcc
Cctataggaatacaaggggcacacaggggaaggcagatccccctagttggcaagactattttaacttgata
cactgcagattcagatgtgctgaaaagctctgcctctggctttccggtcatgggttccagttaattcatgc
ctcccatggacctatggagagcagcaagtgatcttagttaagtctccctatatgagggataagttccctg
atttttgttttattttgtgttacaanaagaaagccctccctccctgaacttgcaagtaaggtcagcttca
ggacctgttccagtgggcactgtacttggatcttccccgcGtgtgtgtgccttacacaggggtgaactgt
tcactgtggtgatgcatgatgagggtaaagttagttgaaaggagcagggggccctgggtgttgcathtagc
cctggggcatggagctgaacagtaCTtgtgcaggattgttgtgctactagagaaacaagagggaaagtag
ggcagaaactggatacagttctgaggcacagccagacttgctcaggggtggccctgccacaggtgcagct
acctaggaacattccttgcagacccccgcattggcccttgggggtgcctgggatccctggggtagtcag
ctctctctcatttcccagcgtggccctggttggagaagcagctgtcacagctgctgtagacagctgtgt
tctacaaattggcccagcacccctggggcacgggagaagggtggggaccgttgcgtcactactcagcgtg
actggggcctggtcagattacgtatgcccctgggtgttagagataatccaaaatcaggggttgggttgg
ggaagaaaaatcctcccccttccctccccgccttccctaccgcctccactcctgccagctcattcct
tcaaattcctttgacctataggctaaaaaagaaaggctcattccagccacagggcagccttccctgggc
tttgcttctctagcacaattatgggttacttccctttcttaacaaaaagaatgtttgatctcctctgg
gtgaccttattgtctgtaattgaaaccctattgagaggtgatgtctgtgttagccaatgacccaggtgag
ctgctcgggcttctcttgggtatgtctgtttggaaaaagtggatttcattCatctctgattgtccagttaa
gtgatcaccaaggactgagaaatctgggagggcaaaaaagtttttatgtgcacttaaat
ggggacaaattttatgtatctgtgttaaggatatgtttaagaacataaattctttgtgtgtttgtttaa
gaagcaccttagttgtttaagaagcaccttataatagataataataattttttgaaattacattgctt
gtttatcagacaattgaatgtagtaattctgttCTggatttaaatttgactgggttaacatgcaaaaacca
aggaataatttagttttttttttttgtatacttttcaagctacctgtcatgtatacagtcacat
ttatgcctaaagcctggtgattattcatttaaataagaagatcacatttcatatcaacttttgtatccacag
tagacaaaATAGCACTAATCCAGATGCCTATTGTTGGatactgaatgacagacaatcttatgtagcaaa
attatgcctgaaaagggaataattatccagggcagctaattttgtcttttaccaaaatatcagtagtaatt
tttggacagtagctaattgggtcagtggttcttttaagtgttatacttagatttcttttaaaaaaatt

8.3 f primer
460553 T/C 2,3(I); 460564 G/A 2

460929 A/G 1,2,3(all),4,5,6

461199 T/C 2 461231 A/G 2

461337 A/C 3(A)

461520 G/C 2

461843 G/A 2

461968 T/C 2,3(all)
8.25 f primer
462125 C/T 3(A)
8.3r primer

462683 C/A 3(I,A,S)

462949 T/G (A,S)

8.17f primer / **8.25r primer**

FIGURE 9, sheet 6 of 7

aaaataaaacaaaaaatttctaggactagacgatgtaatacaccagctaaagccaaacaattatacagt
ggaaggttttacattattcatccaatgtgttctattcatgttaagatactactacatttgaagtgggca
gagaacatcagatgattgaaatgttcgccagggtctccagcaactttgaaatctctttgtatttta
cttgaagtccactaatggacagcagatatttctggctgatgttggtattgggtgtaggaacatgattt
aaaaaaaactcttgccctctgctttccccactctgaggcaagttaaaatgtaaaagatgtgatttatct
gggggctcaggtatggtgggaagtggattcaggaatctgggaatggcaatatattaaagaagatat
tgaagtatttgaggaaaaatggttaattctgggtgtgcaccagggttcagtagagttccacttctgccct
ggagaccacaaatcaactagctccatttacagccatttctaaaaatggcagcttcagttcttagagaagaaa
gaaacaacatcagcagtaaatccatggaaatagctagtggtctgtgttcttttcgcatctgcc**Tagcttg**
c**Cg**taatgattctataatgccatcatgcagcaattatgagaggctaggtcatccaaagagaagaccctat
caatgtaggttgcaaaatctaaccctaaaggaaatgcagtcctttgatttgatttccctagtaaccttgca
gatatgtttaaccaagccatagcccatgcccttgagggtgaacaaaataagggaacttactgataattta
cttttgatcacattaaggtgtctcaccttgaaatcttatcacatgaaatggccattgatttaggccact
ggcttagagtagtacctctccctgcatgacactgattacaaaatactttcctattcatactttccaattatg
agatggactgtgggtactgggagtgatcactaacaccatagtaaatgtctaatattcacaggcagatctgc
ttggggaagctagtattatgtgaaaggcaaatagagtcatacagtagctcaaaaggcaaccataattctctt
tgggtcaggtcttgggagcgtgatctagattacactgcaccattcccaagttaatccccctgaaaaacttac
tctcaactggagcaaatgaactttgggtcccaaatatccatcttttcagtagcgttaattatgctctgttt
ccaaactgcatctcttccaattgaattaaagtgtggcctc**G**tttttagtcattttaaaattgttttctaa
gtaattgctgcctctattatggcacttcaattttgcaactgtcttttgagatccaagaaaaatttctatto
Tttttttgcatccaattgtgcctgaaacttttaaaatatgtaaaatgctgccatgttccaaacccatcgtc
agtgtgtgtgttttagagctgtgcacccctagaaacacataattgtcccatgagcaggtgcctgagacacag
accccttgcattcacagagaggtcattgggtatagagacttgaattaatgaagtgaattatgccagttt
ctgttctctcacaggtgataaaacaaatgctttttgtgcactacatactcttcagtgtagagctctgtttt
atgggaaaaggctcaaatgccaaatgtgttgatggattaatatgcccttttgccgatgcatactatta
ctgatgtgactcggttttgtgcagctttgctttgtttaatgaaacacacttgtaaacctcttttgcaact
ttgaaaaagaatccagcgggatgctcgagcacctgtaaaaaaatttctcaacctatttgatgttcaaat
aagaattaaactAAAGACACACGAGTTGTTTTTTGTAAGCTCCACTTCTTGCTAGCAGTTCACCACTGAT
CCTCTAAAAATCAA**AG**TGGTTAAACGATCTGTACACACAGTGAGTCTGAATGCTAAAGCCTCTCCTCACC
TCACCTCCCTCTGCCCAACACCCCCAGGTGTATCAGGAAGTGTGTGGACACTGTGTCAGGCAGAACTGGC
CTCAATTCTTGCTTCACCACTTACAAAATTTTATGATCATTTGCAGTTGATTTTTCAGAGTTTCGGCTTC
CTTATCAACAATATGATGATAAGTAATAACACCTAATTACACAGATGGTGGTGAGGACTAACTGAGGTGC
TCATTAAACATAGTTGCTGTTTTTTTAAATGCCCTGGCCCAAATCCTTCCCTGTGAGGGAGAAGGATGCT
TGAGAGTGGTTATT**TCAATCAATGAGTGAATGGAAGATGAGT**CTGATCTGAAATGATATAATTAGCTTA
AAACCTCTCCCTCATTTCTGAAGGTAAAGCAGGAACAAATTGGTCCACCCCAACCCAGGTTTCCATTCA
GGACTCCCTTCCCTTTTGGAGCTACCTGCGTGCTTCCTTTACCCATTTTCTCAGATTTAACTGATGAAT

463958 T/C 3(N)
463966 C/T 2

8.18 f primer

464237 G/A 2 8.17r primer
464735 A/T 2,3(all)

54404 A/G 3(N,C,I,A),54460 C/A 2,3(C,I,S)

8.18r primer

(bold = SNP position, underlined = primer sequences, lowercase = exon.)

FIGURE 9, sheet 7 of 7